Case 3:16-md-02738-MAS-RLS Document 26640-1 Filed 08/14/23 Page 2 of 222 PageID:

JOHNSON'S® Baby Powder | Johnsons Baby

Page 1 of 1



Sign Up for JOHNSON'S® BY YOUR SIDE™

JOHNSON'S® Baby Powder



Keeps skin feeling soft, fresh and comfortable

It's a classic, JOHNSON'S® Baby Powder helps to eliminate friction while keeping skin cool and comfortable. It's made of millions of tiny slippery plates that glide over each other to help reduce the irritation caused by friction

- · Helps eliminate friction
- · Clinically proven to be safe, gentle and mild
- Allergy and dermatologist-tested
- · Clean, classic scent

For skin that feels soft, fresh and comfortable, apply JOHNSON'S® Baby Powder close to the body, away from the face. Shake powder into your hand and smooth onto skin.

Ingredients

Talc, Fragrance

When to Use

Use anytime you want skin to feel soft, fresh and comfortable. For baby, use after every bath and diaper change.

Safety

For external use only. Keep out of reach of children, Close tightly after use. Do not use on broken skin, Avoid contact with eyes, Keep powder away from child's face to avoid inhalation, which can cause breathing problems.

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helps keep odor away

Have you had your sprinkle today?

BUY NOW



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SHOWER to SHOWER®

Page 1 of 2













The Power of Powder



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- No more stained clothes powder provides invisible wetness protection
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Get active:

Use before (or after) a workout or hitting the dance floor for a just-showered fresh feeling.

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Leave sand at the beach:

Sprinkle powder generously anywhere wet sand is clinging to your skin, thei brush the sand away!

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Soothe your skin:

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Relax:

Lightly dust your sleepwear or sheets to make bedtime peaceful and luxurio

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http://www.showertoshower.com/power of powder.jsp

6/17/2010

JOHNSON'S® Our Products | Johnsons Baby

Page 1 of 1

Johnsons

Clinically proven to be pure, mild and gentle

From baby's first hospital bath through every special milestone, moms and healthcare professionals alike trust JOHNSON'S baby products to provide the "best in care."

Our Products

Our products have stood the test of time. Whether you're purchasing one of our timeless classics or a newer release, with JOHNSON'S® you're always getting the clinically proven gentle formulas that have made us the most trusted name in baby care for more than 100

O SHARE



Sign Up for JOHNSON'S® BY YOUR SIDE™

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The JOHNSON'S® Difference
For skin that feels soft, fresh and comortable, apply
Newborn skins 10 times thinner
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Baby's Skin | Johnsons Baby

Page 1 of 1

Johnsons

Sign Up for JOHNSON'S® BY YOUR SIDE™ C SHRRE

Add a layer of gentle, loving protection

You put your baby's safety first, and so do we. All of our baby products are formulated to cover your baby from top to toe with pure and gentle protection.



Newborn Skin Care

Learn about her delicate skin. Your newborn's skin is a unique and an essential shield that offers protection from the outside world.

Read more

Skin Science

- Your baby's skin is more susceptible to irritants and to changes in temperature and humidity.
- While your baby's skin is naturally more hydrated than your own, during the first 12 months of life, it also loses water more quickly.
- Your baby's skin requires more protection to keep it clean and moisturized.

See more on the JOHNSON'S® Brand Difference



Basics of Baby Skin



Sun Protection



Benefits of Infant Massage



Preventing Diaper



Your Baby's Changing Skin



Understanding Baby Skin

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Healthcare Professionals

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SHOWER to SHOWER® Task Force- BP Brainstorm July 14, 2004

Challenge #1: Powder Category Decline

- Explore needs states: pregnancy, menopause, "chubbiness", diabetes
- Advertise through mass transit
 - Subway reminders and subway maps
 - Retail tie-in
 - Sampling
 - Coupons on Metro Cards
- Use Duane Reade for PR on the street or in-store with displays and jingle playing
- Radio ads geo-targeted, radio personalities?
- Helps runners with chafing
 - Could do promotions around running events (pre-marathon bags)
 - Include in training kits they can buy
- Race for the Cure promotions
- Education to younger consumers

Challenge #2: STS Share Decline

- Education is key. Get people back into a daily powder routine by telling them how valuable our product is.
 - Surround Sound
 - o Need to answer: Why use powder?
 - Possibly go beyond current benefits and look at anti-itch and foot care (more like GOLD BOND®)
- "Soup to nuts" account specific program is most effective; surround sound; start over explaining benefits of powder
- Redefine who our targets are (what do we mean by women 35+?)
 - o Can look at men, Redacted women, heavy women
- Go beyond JOHNSON'S® Baby Powder and fragrance; they can't do things like Sport or Shimmer
- We have higher standards of talc that Private Label does not
 - o Do we have to keep these higher cost standards?
 - Need to make it worth the extra cost
- Account specific programs? Maybe spot TV tied with specific markets
- Make 1 oz. more available for sale
- Vacationers more willing to try new routines/products
 - Possibly target cruises, the beach, camping, outdoors
- Potential in women's sports markets
- · Make scent names more current
- Turn powder into daily regimen by partnering with other products such as women's health or even tooth brushes, something everyone sees as being used daily



- Celebrity endorsements: someone professional but would get the idea away from "Grandma's powder"
 - o Limo drivers handing out samples to get celebrities to try it
 - o Make Patti LaBelle or Aritha Franklin spokeswomen
 - Send out celebrity mailings to anyone who might get hot while they work. This could also go to anchormen, like Katie Couric for example.
 - Ideally we would get the reaction that Purpose saw when Dr. Phil's wife mentioned it
 - Could also get beauty personalities to promote it, especially with the new shimmer
- Maybe get product placed in more high-end retailers than just the Mass COT. More attention from places like Bath and Body Works and Ulta.
- Alternative forms of powder and different placements could be key
- On pack attachments for different delivery: powder puffs and brushes
- Could also attach unrelated items for different messages. For example coupons for greeting cards around Mother's Day promotes family values and relationships.
- Message that it's time to "grow up to adult powder"
- Direct mailings with powder samples
- In-book sampling
- Fragrance scratch-n-sniff on FSI
- Scratch and sniff labels
- Floor mats to get customers to actually look for Shower at the retailer.
 Might need to put them in other spots to get younger potential users down the aisle
 - Could possibly go in personal care if the idea is that you want something to keep you fresh and clean
 - Partner with Carefree, or Catalina (same idea of our product will bring freshness)
 - Would also reinforce how everyday powder should be
- Sampling/tie-in to Weight Watchers
- We know that people usually purchase Shower on their stock up store trips, not just milk and bread runs
- Hang tags on gym bags or sneakers (or coupons) and could also cross merchandise with seasonal wear
- 101 uses: approximately 50 beauty uses? 50 sport uses? Others:
 - o Play up seasonality more: use it at the beach to take off the sand
 - Takes squeaks out of hardwood floors (find interesting uses)
- Wal-Mart market basket data (Nancy f/u)
- X merchandising within J&J
 - Viactiv, Tylenol pairing up with Shower because women trust these brands
- Position to menopause specifically: "heat reliever"; "cools hot flashes"; this
 way lots of PR would follow

- Harris Interactive Study for PR: i.e. what do you want when you're hot?
 (for example: powder, a fan, a cool drink, etc., to cool you down)
- More interesting packaging, possibly a more unique cylinder shape so that customers are more willing to spend more money
- Work with bowling alleys (put powder in shoes)
- Baseball gloves, swim caps
- Menopause survival kit
 - Advertise as helping with night sweats and hot flashes
- Obesity platform
 - Focus on Redacted women and obesity
 - o What makes her comfortable and confident?
- Create loyalty through frequent buyer program
- Try starting a completely unique and account specific program
- Create STS website and make connections with online retailers
- Make dollar stores better opportunity
- Can we improve our claims beyond time released fragrance?

Challenge #3: Aging Users, How Bring New/Younger Users

- NASCAR displays, signage and any brand linkage
 - o Did this 1996-1998 and it did well
- Seasonal approach and alternate usages (PR)
- · Rally around specific dates/times of the year and relationships
- Sampling at vacation spots
- Try to market the values of a mother/daughter relationship around powder as well as father/son around Sport
- Teens could be a market because they are more concerned with fragrance and freshness than messiness
- Look at the KY model think about a correlation between Shower and closeness among people
- Maybe look into more of a beauty focus

Redacted

- Atlanta test results?
 - Grass roots efforts effective?
- SMSI: do they market with Anderson? How leverage this org.?
 Redacted
- Make writing a new jingle into a competition
 - For example: A&W recent contest or like American Idol where the consumer or radio audience can select the one they like the best, with winner being put in commercial for STS

- Hospitals
 - Could be giveaways to patients, sampling
 - Sell in hospitals patients would be willing to buy from hospital shop if you can't shower for an extended period of time; chafing/bed sores
 - More comfortable with name brand so willing to pay a little more better than hospital brand
- Get in on the college bus tour? While girls are learning about skincare guys could also be hearing the benefits of Sport powder.
- Better placement, can we get our line placed in baby or foot care?
- Partner with lower end shoe store like Payless to promote powder usage in shoes
- Product Ideas:
 - Invisible powder
 - Tinted powder
 - Tinted hair powder (already in Europe, can Beatrice get for us?)
 - Bronzer powder
 - Talk to Alexandra learn European trends
 - Liquid powder in tubes (could also lead to different sampling mediums)
- STS conversion: Redacted
 - General Market needs motivation to buy STS Redacted
- Jingle revival event, contest, casting call; make it more relevant to new market
- Promote at teen events, sporting events
- Decrease sample size so that they can still use it but not have a short term supply; need to get the consumer to go buy more after trying
 - Salt and pepper packets
 - Ketchup packet sized
- Different shape: try unique powder cylinder (differentiate from P/L)
- Lots of Sport potential:
 - o Promos on shoes or athletic gear
 - Sporting event sampling (exit/entrance samples)
 - Channel breaker display
 - Buy celebrity sponsorship
 - o ESPN radio
 - Talk to Jack Weekly for sport connections
- Target brides; under stress so they need powder
 - Ads in bride magazines
- Link with a manicure/pedicure chain, beauty product
 - o If it will become a beauty product, what is the message?
- · Sampling at retailers like BJs, Costco, Sam's
- Education to younger consumers is important

- Times Square Billboard
- Play jingle in subway stations, hire people to look like street performers singing about Shower
- Arena signage
- Talk radio personality endorsements (like Gold Bond)
 - Can go for sports casters or even weather forecast
 - "Weather forecast brought to you by SHOWER to SHOWER®"
 - Set it up to do the weather on hot, humid days
- Weather Channel, either on line or on TV
- · Other publicity styles: Vitamin water and the NY post
- Regis and Kelly samples (always under hot lights)
- Ellen DeGeneres Show product placement/integration
 - Really "big finish" tie-in
 - She might need it after her dancing segment
 - Help re-write the jingle
- Oxygen TV sampling, sponsorship
- Reality TV product placement?
 - Survivor
 - o Queer Eye
 - The Amazing Race
- Figure out best radio spot timing: morning or night reminders?
- · "Flip book" advertising next to train lines
- · Stress platform: how to keep cool under pressure
 - Promos with political campaigns
 - Tiger Woods
 - Martha Stewart
- Fashion dos and don'ts, before and after shots, what Shower will do for you
- I-com database f/u with Jean
- New potential for wipes?
- Do a deeper dive into finding out what is important to Redacted women and the younger ones in particular
- Ulta has created edible powder, sells for about \$25/bottle and actually sells out
- Involvement with military could be big market
- Packaging make it gender neutral
- · Sampling at men's health clubs



Plaintiff's Exhibit
No.
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JOHNSON'S® Baby Powder | Johnsons Baby

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Sign Up for JOHNSON'S® BY YOUR SIDE™

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SHOWER to SHOWER®

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SHOWER to SHOWER®

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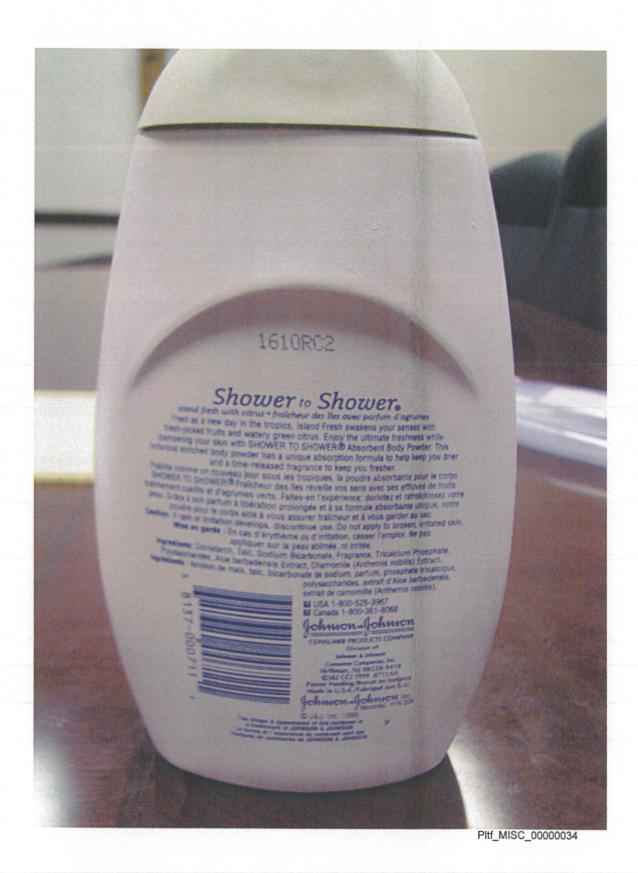
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6/17/2010





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Johnson Johnson

JAN 25 RECD FEB 1 4 RECD New Brunswick, N.J.

January 18, 1974

Subject: Talc/Asbestos

Meeting with Commissioner Schmidt, FDA January 16, 1974

Memo to File

Attendees:

for FDA: Dr. V. Wodicka Director, Bureau of Foods

Dr. H. Eiermann, Director, Division of Cosmetics

Technology.

Mr. J. Wenninger, Deputy Director, Division of

Cosmetics Technology.

Later: Commissioner Schmidt and the above.

for J&J: Dr. R. Fuller, Dr. G. Hildick-Smith, Dr. W. Nashed

A preliminary meeting with Dr. Wodicka and his staff was held. We traced the history of the talc/asbestos problem: Kretchmer letter; FDA Symposium, August, 1971, where Mt. Sinai people admitted that their analysis based on optical microscopy of our product was wrong and that Johnson & Johnson Baby Powder was the best talc available; and we mentioned the voluminous data which we had shared with the FDA. Dr. Eiermann and Mr. Wenninger corroborated our presentations to Dr. Wodicka.

Dr. Eiermann then said that he has reviewed the CTFA Round-Robin test results with his microscopist, Mr. Schulze, and said that Mr. Schulze still thinks the method is valid. We pointed out that we believe that the method has some basic flaws as outlined in the CTFA comment; however, we believe that a cooperative program between FDA and industry should result in a practical solution to the problem.

Humm

* Former J&J employee in Brazil.

Memo to File

- 2 -

January 18, 1974

We pointed out that we had developed a DTA method capable of measuring 1% chrysotile and we also believe that a step scan x-ray method can be used to detect 0.2% tremolite.

Dr. Eiermann said that they have obtained DTA equipment and x-ray equipment and that he has some reservation about allowing 1% chrysotile.

We volunteered to cooperate with his scientists in the development of the method for DTA and promised to provide a copy of a proposed publication regarding this method.

Dr. Eiermann said that his main interest at this time is to find what level of dust exposure occurs in the process of dusting a baby and that they would like to use the data to calculate allowable asbestos using 5 fibers per ml (OSHA limit) for safe exposure in the mines. We promised to provide a report on the talc dust exposure of babies. We pointed out that the data we have is based on exaggerated dusting of a whole can of baby powder and that the amount generated, namely 345 mg/ m³ may be excessive. We said that we are currently attempting to make the same calculation he proposed to the data. Our very preliminary calculation indicates that substantial asbestos can be allowed. safely in a baby powder.

NUTS

Hammer

Dr. Wodicka appeared skeptical of Dr. Eiermann's approach to the problem. He implied that what is safe for a miner may not be safe for a baby.

Dr. Eiermann also mentioned that they were carrying out some studies in-house using an air sampler to assess the dust exposure and were having some difficulties in determining it.

Dr. Hildick-Smith reviewed the current knowledge on the biology of talc and indicated that talc had a low order of toxicity when evaluated in cell culture systems, that animal studies had been conducted which confirmed the cell culture studies, and that long-range inhalation studies in rats by MRC and in hamsters by J&J were being conducted in England and in the U.S.A. and that the results will be available in 1975. It was pointed out that two separate epidemiological studies had been conducted on talc miners, one by Dr. Kleinfeld and the other by Dr. Green at the University of Vermont School of Medicine in Burlington. The data obtained from both studies indicated that, where miners in the Kleinfeld study had been exposed to talc dust for an average of about 17 years and in the Green study for about 7 years, there appeared to be no significant impairment of the miners' health. Utilizing these data, the known information

Memo to File

- 3 -

January 18, 1974

concerning the amount of talc to which infants were exposed and their respiratory capacity, miners were exposed for a period of approximately 1,000 times that of an infant. The dose respired by the miner is approximately 11,000 times that respired by the infant. It was brought out that critical review of all the world literature failed to show any evidence of adverse health effects following the normal use of cosmetic talcs.

Dr. Hildick-Smith indicated that he was writing a review article on talc and that a copy of the manuscript would be sent to the FDA for their files.

Humman

Dr. Fuller stressed Johnson & Johnson's policy of full cooperation with FDA and that if the results of <u>any</u> scientific studies show <u>any question</u> of safety of talc, Johnson & Johnson will not hesitate to take it off the market.

A meeting was then held in Dr. Schmidt's office. The proceedings were similar to that which took place in Dr. Wodicka's office.

Dr. Schmidt asked for information on our Vermont mine: location (Windsor, Vt.), kind of talc (platey talc), processing (froth flotation to maximize platey talc). He wanted to know whether we sell our talc to other companies (cosmetic beneficiated grade is not sold to other companies; other locations in the Windsor mine are used to supply industrial grade talc).

Dr. Fuller pointed out that our meeting is not a "crisis" meeting. The Commissioner appeared to appreciate that. Dr. Fuller again stressed Johnson & Johnson's pplicy of full cooperation with the FDA which preceded the Kretchmer incident, namely, the Tenovus report where Dr. Hildick-Smith had called Dr. Simmons at the time we first heard of it. We reviewed briefly the Tenovus data (unreliable talc particle identification technique, presence of mineral particles in the tissue-fixing baths, lack of formal education of the principal investigator).

Dr. Hildick-Smith also commented briefly on the article relating stomach cancer in the Japanese and pointed out that this was generally discredited by scientists and that there was no information in the world literature or in animal studies completed to indicate talc produced cancer.



Dr. Schmidt said that the FDA could come under pressure from consumer or other groups and that they were particularly vulnerable when there were minimal, inadequate or no scientific data in a specific area. He had, however, developed a tactic by which he publishes in the Federal Register any scientific attack on the FDA in the hope that members of the scientific community could provide data to assist the FDA.

Memo to File

-4 -

January 18, 1974

He appreciated the Johnson & Johnson visit and our expression of interest to assist the FDA where possible. He welcomed the opportunity of having a source of scientific information on which he could rely if the occasion arose. He indicated the immediate interest of the FDA in developing a method for assessing asbestos in talc. He pointed out that additional information being developed by Johnson & Johnson and others would meet the possible future need if talc per se is attacked. As there were some scientific data and good scientific studies in hand, the scientific community would be well prepared to withstand any onslaught concerning talc.

The meeting ended on a very cordial note and appreciation by the FDA officials of Johnson & Johnson's visit and willingness to cooperate with the agency in developing methods and providing information concerning talc technology.

G. Hildick-Smith

W North

W. Nashed

cw

cc: Dr. R. A. Fuller

Dr. A. Goudie

Dr. G. Hildick-Smith

Mr. D. D. Johnston

Mr. G. Lee

Dr. D. Petterson

Mr. S. Smover

Dr. T. Shelley

Mr. H. Stolzer

Johnson Johnson

New Brunswick, N.J. December 3, 1975

Subject: Talc in the Ovaries

Dr. D. R. Petterson

Attached is a letter received from Dr. Keith Griffiths, who is Director of the Tenovus Institute for Cancer Research in Cardiff. The letter arrived in response to a small donation I had sent the Cardiff Scientific Society with the main objective of trying to determine what research is in actual fact being conducted at the Tenovus Institute.

It might be of value to identify the precise scientific data available to Tenovus concerning tale and ovarian cells. We are not budgeted to support the research outlined and shall so inform Griffith if this meets with your approval.

G. Lee.

Gavin Hildick-Smith

GHS/cd Att.

Mr. G. Lee
Dr. F. R. Rolle
Dr. B. Semple

to know ahead of time just what Savin memors when form he was planning to form the constent of the C.SS. ? It has were containly fines formation the was proposed the spening to pure spening to pure some actions

Plaintiff's Exhibit
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Talc and Ovarian Cancer

Supplementary questions and answers Prepared 20.10.97

Background

On 22nd October 1997, Face Value will air a programme, which will discuss a potential link between talc and ovarian cancer. This issue has been around for many years and there has been a full FDA review of all of the research available. This review has concluded that there is absolutely no causal link between talc and ovarian cancer. This is an industry matter and is not specific to Johnson's Baby powder. The CPTA has issued a full statement on the matter and Johnson & Johnson supports this statement.

The purpose of this document is to supplement the question and answer sheet already issued by J&J corporate. It covers issues specific to what may be aired during the Face Value programme. Any questions on the link to ovarian cancer or the similarities to asbestos are contained within the corporate Q&A also attached.

Above all, the company is absolutely sure that Johnson's Baby Powder is perfectly safe for use on any part of the body, in line with the directions on the pack. There is no link to ovarian cancer either implied or actual and this is the conclusion of the independent review carried out by the FDA. Trust and safety is the basis of our company reputation and if we believed there was even the slightest risk associated with the normal use of Johnson's Baby Powder, we would not hesitate to take the necessary action.

Questions and answers in response to recent publicity. (numbered from Q.38 onwards which follows the corporate Q&A sheet)

Q.38: If you are saying that there is no link to ovarian cancer then why did the programme suggest that there is - they wouldn't just make it up would they?

A.38: That is a good question and we have challenged ourselves on the same issue. We are entirely confident of the safety of our product and all we can do to reassure you is tell you the facts: and that is that there is absolutely no link between talc and ovarian cancer. This is the view expressed by the independent FDA working party who have reviewed all of the research and is supported by the CPTA.

Q.39: Are you saying that the research is not valid in its conclusions?

A.39: What is most important here is what the independent working party who have reviewed this research have concluded. They have concluded that there is no link to ovarian cancer either implied or actual. We have also carried out our own review of the data and we support the conclusions drawn by the FDA.

Q.40: Why did Johnson & Johnson decline to be interviewed by Face Value?

A.40: The talc issue is a general industry issue and is not specific to Johnson's Baby Powder. The CPTA issued an industry response to Face Value, which we support . We are more than happy to talk to our consumers directly (as



JNJ 000024495

- I am doing with you now) but it is not our corporate policy to talk to our consumers through the medium of television programmes like Face Value.
- Q.41: Why did the CPTA statement which J&J supports make no reference to the fact that the FDA went on to conclude that people should "err on the side of caution"?
- A.41. The written FDA statements, which the CPTA have relied on to draw their conclusions, do not contain any such reference. If this is a personal or subsequent view verbalised by any member of the FDA then they are entitled to express that view. Ultimately we all have to take whatever action is right for ourselves. What I can assure you of however, is that Johnson's Baby Powder is perfectly safe for normal use and that the FDA formal conclusions were that there is absolutely no link either implied or actual to ovarian cancer.
- Q.42: If you have known about this research since 1994 or before, why didn't you tell consumers before now or were you just worried about your sales?
- A.42: We believe that our first responsibility is always to our consumers. This research has always been in the public domain and we have made no attempt to hide it. We have made every attempt to understand its implications for our consumers and can assure you that independent reviews of the research carried out by the FDA have concluded that there are is no link to ovarian cancer. Trust is the basis of our company reputation and I can assure you that if there was the slightest risk to our consumers we would be the first to withdraw the product. We have done this before with Tylenol in the US.
- Q.43: If there is even the slightest risk of a link to ovarian cancer why do you say that the product is safe to use on babies, particularly on babies' bottoms?
- A.43: We can assure you that there is not even the slightest risk of a link to ovarian cancer. Independent studies have proven that talc cannot migrate from any area of the body to the ovaries. Johnson's Baby Powder is perfectly safe to use on your baby, in line with the normal directions on the pack.
- Q.44: Why would Face Value make a programme on this subject if there is nothing to it surely I should believe them more than I should believe you because they have the consumers' interests at heart?
- A.44: That is a great question and I cannot answer it for you. Our opinion is that it is the independent conclusions of the FDA working party that are the most reliable source of the truth in this matter. This working party concluded that there was absolutely no link between the use of talc and ovarian cancer. Ultimately you have to judge the accuracy of the information you have received from the media and from us. However, I can assure you that we always have our consumers' interests at heart and that if there was even the slightest risk we would act accordingly.
- Q.45: I don't care if you think that there is absolutely no risk. You should have made consumers aware of the issue there should be directions on the pack to indicate that it is not suitable for use on certain parts of the body. Are you going to do this in the future?
- A.45: Ultimately, it is not what we think that matters, but what independent sources such as the FDA think. We are extremely confident in the FDA working party conclusion that there is absolutely no risk of ovarian cancer. Johnson's Baby Powder is safe for use, in line with the normal directions on pack, on any

part of the body. Research has proven that talc cannot migrate from any part of the body to the ovaries. We are extremely confident in the safety of our product and see no need to make any changes to the current packaging.

Q.46: I have just been diagnosed with ovarian cancer and I have been using Johnson's Baby Powder for years. I am extremely angry that you knew about this years ago and that you did not inform the public. I want to know how you are going to compensate me.

A.46: I am extremely sorry to hear about your recent diagnosis. However I can assure you that there is absolutely no link between Johnson's Baby powder and ovarian cancer. This is not just our view but is supported by an independent review of all of the research available conducted by the FDA.

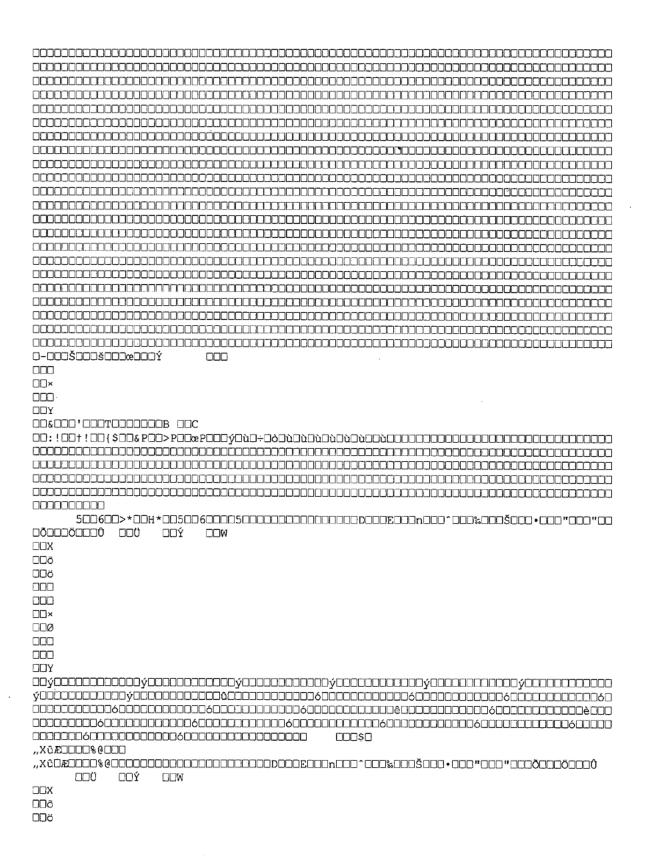
If the consumer is still unhappy with this response and insistent upon what we are going to do to compensate her then the appropriate response is...

Once again, I am very sorry to hear that you are suffering from ovarian cancer, however I can assure you that our product is not at fault. If you wish to take this further then that course of action is up to you and we will respond accordingly.

Q.47: How can you be totally sure that talc does not cause ovarian cancer? $\stackrel{\textstyle \sim}{\mathcal{W}}$

A.47: We are absolutely sure for a number of reasons: firstly, an independent review of all the research available, conducted by the FDA has concluded that there is no link between talc and ovarian cancer. Secondly, in the UK and the U.S where talc is commonly used, the incidence of ovarian cancer is 15 / 100,000 women whereas in Scandanavia where talc is not used by women the incidence of ovarian cancer is higher at 21 / 100,000 women. The higher incidence of ovarian cancer in Scandanavia is flinked to diet and has no connection to the use of talc. We can absolutely assure you that there is no known or implied link between talc and ovarian cancer. If there was we would be the first to take appropriate action for the safety of our consumers.

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Exhibit 19

Johnson-Johnson

202002

New Brunswick, N. J.

February 21, 1964

R. G. Schoel (2)

Subject: Cornstarch Development

Memo for File:

Report on Meeting: February 21, 1964

Present: R. E. Faust (2)

R. L. Sundberg W. H. Ashton

Consumer Research Test - Staley's CREAM vs. JOHNSON'S

Consumer Research Test - Staleys CREAM vs. JOHNSON'S
Baby Powder

It was agreed that we will prepare the 440 samples R. Schoel requested earlier (1/2/64). The test is to determine a preference rating of our regular JOHNSON'S Baby Powder vs. the Staley product CREAM Brand cornstarch baby powder.

One of the four items requested was 110 units of the Staley product repackaged in our own new plastic container. Dr. Faust directed that this request cannot be carried out since the embossed copy declares the contents are talc. It was agreed that this problem can be eliminated if special labels declare the contents to read "talc and/or cornstarch." Mr. Schoel will finalize all labels with Dr. Faust.

Ashton will determine whether sufficient plain plastic packages or unembossed varieties are available in J&J for this test. Failing that, the supplier's inventory will be checked. In the event no suitable plastic packages are available, then metal containers will be acquired for this small test only.

Product Development

A) Mr. School requested we immediately undertake the formulation and development of a cornstarch product which is inexpensive and free-flowing. This was discussed in some detail and the following decisions were reached:

CENTRAL FILE

APR 20 1972

RECEIVED

Memo for File

-2-

February 21, 1964

- 1) The product will use our standard perfume, P-5. It will be compounded at a level which gives an aroma match to our standard talc article.
- 2) The product will not contain an antiseptic.
- 3) The raw material cost of the Staley product is estimated to be 6.7¢/lb. of product plus perfume.
- 4) We will develop such a product which either equals or exceeds Staley's characteristics.
- 5) No buffer action is considered.

B) The formulation will be developed with either of National Starch Products U.S.P. grades of cornstarch. The regular variety runs \$5.95/100 wt. whereas the bleached variety runs \$6.50/100 wt. f.o.b. Indianapolis. Additives which are believed to impart fluidity appear in the price range of \$14.00 to \$20.60 per 100 wt. Thus we optimistically expect to be able to evolve a formulation closely competitive to the Staley article, plus perfume cost.

Additives to be explored within the formulation and product character parameters are:

- 1) Dry Flo A low substituted Al salt of mildly treated cornstarch.
- 2) MgCO₃ This is the Staley fluidizer.
- 3) MgO
- 4) Tricalcium Phosphate
- 5) Cab-O-Sil
- 6) Any other which comes to attention.

Memo for File

-3-

February 21, 1964

Of these additives, the Dry Flo has very appealing tone because it would open the door to a merchandising advantage which could refer to an all starch product, i.e., a blend of it with U.S.P. Cornstarch would have no added inorganics.

Since the meeting, Ashton established the largest commercial uses of Dry Flo are in Vitamin A manufacture (5% in finished product) and as a condom lubricant where it replaced talc because it was found to be absorbed safely in the vagina whereas, of course, talc was not.

C) Programming - The necessary raw materials will be ordered immediately and the work begun in line with a program chart which was presented.

W. H. Ashton

sg

JNJ000265536

Metadata

AttachCount	0	ORIGINAL
BegAttach	JNJ 000265536	ORIGINAL
Confidentiality	N	ORIGINAL
Custodian	Legacy 1	ORIGINAL
DateMod	02/21/1964 12:00 AM	ORIGINAL
DocExt	TIF	ORIGINAL
EndAttach	JNJ 000265538	ORIGINAL
FileName	K000135321.TIF - K000135323.TIF	ORIGINAL
FileSize	0.00	ORIGINAL
OtherCustodians	Miscellaneous	ORIGINAL
PgCount	3	ORIGINAL
ProdVol	TALC_GLOBAL_002	ORIGINAL
Relative FilePath Append	\	ORIGINAL
Replacement	Yes	ORIGINAL
Score_adjusted	416880523.7	ORIGINAL
Tag Name	Asbestos and Heavy Metals Contamination/Testing	ORIGINAL
Text Path	TEXT\0273\JNJ 000265536.txt	ORIGINAL
Trial_Ex_Number	Pltf_JNJ_00039857	ORIGINAL

Exhibit 20

Case 3:16-md-02738-MAS-RLS Document 26640-1 Filed 08/14/23 Page 47 of 222 PageID: 156513

		1010		
	Page 1			Page 3
	SUPERIOR COURT OF NEW JERSEY	1	APPEARANCES (Cont'd):	
	LAW DIVISION: MIDDLESEX COUNTY DOCKET NO. MID-L-00598-18 AS	2		
	DOCKET NO. WIID-E-00370-10 A3	3	HOAGLAND, LONGO, MORAN, DUNST & I	OOUKAS, LLP
	LORETTA SELVAGGIO, DEPOSITION UNDER	4	40 Paterson Street	
	ORAL EXAMINATION	5	New Brunswick, New Jersey 08903	
	Plaintiff, OF NANCY MUSCO	6	732-545-4717	
	VS.	7 8	BY: AMIE C. KALAC, ESQ.	Nami ala
	BRENNTAG NORTH AMERICA, et al.,	9	Attorneys for Defendant, Whittaker, Clark and D	Jameis
	Defendants.	10		
		11	ALSO PRESENT: Ray Moore, Videographer	
	TRANSCRIPT of the deposition of the witness,	12	TESS TRESERVI. Tray Moore, videographer	
	called for Oral Examination in the above-captioned	13		
	matter, said deposition being taken pursuant to	14		
	Superior Court Rules of Practice and Procedure by and before MARC BRODY, a Notary Public and Certified	15		
	Shorthand Reporter of the State of New Jersey, at the	16		
	law offices of FOX ROTHSCHILD, 997 Lenox Drive,	17		
	Lawrenceville, New Jersey, on Wednesday, November 28,	18		
	2018, commending at approximately 10:00 in the forenoon.	19		
		20		
	BRODY DEPOSITION SERVICES	21		
	235 East Broad Street, Suite 1	22		
	Westfield, New Jersey 07090 Phone: 908.789.2000	23		
	Fax: 908-789-2007	24		
		25		
	Page 2			Page 4
1	APPEARANCES:	1	INDEX	
2		2	WITNESS	PAGE
3	COHEN, PLACITELLA & ROTH, P.C.	3	NANCY MUSCO	
4	127 Maple Avenue	4	Direct by Mr. Placitella	6
5	Red Bank, New Jersey 07701	5	Cross by Ms. O'Connor	204
6	732-747-9003	6	Redirect by Ms. Placitella	214
7	BY: CHRISTOPHER PLACITELLA, ESQ.	7		
8	Attorneys for Plaintiff	8		l
9	•	9		l
10	RAWLE & HENDERSON, LLP	10		l
11	401 Route 73 North, Suite 200	11		
		12		
12	Marlton, New Jersey 08053	13		
13	856-596-4800	14		
14	BY: SEBASTIAN A. GOLDSTEIN, ESQ.	15		
15	Attorneys for Defendents, Cyprus Amax,	16		
16	Imerys Talc America	17		
17		18		
18	ORRICK, HERRINGTON & SUTCLIFFE, LLP	21		
19	51 West 52nd Street	22		
20	New York, New York 10019	23		
21	212-506-3604	24		
22	BY: PAIGE PAVONE, ESQ. AND KATHY O'CONNOR, ESQ.	25		

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	Page 5	Page 7
1	EXHIBITS	1 before?
2	NO. DESCRIPTION PAGE	2 A Yes. Once before.
3	rec. Beschi ffort fried	3 Q What kind of case was that?
4	Musco-1 Handwritten document 91	4 A That was Johnson's Baby Oil.
5	Musco-2 Binder of documents 131	5 MR. PLACITELLA: Before we get
6	Musco-3 Five pages legal size	6 started, is the witness here testifying as Nancy
	Chart 136	7 Musco, a former employee of Johnson and Johnson that
7		8 I subpoenaed, or as a representative of Johnson and
	Musco-4 List of J&J employees 202	9 Johnson?
8		10 MS. O'CONNOR: You are asking me
9		that question?
10		12 MR. PLACITELLA: Yes. The reason I
11 12		ask is because I got an email from counsel for
13		14 Johnson and Johnson that said that Ms. Musco was
14		being produced here today as a representative for
15		16 Johnson and Johnson.
16		
17		17 MS. O'CONNOR: I think that was not 18 what was intended. She is here in her personal
18		1
19		19 capacity as a former employee of Johnson and
20		Johnson. She is not here on behalf of the
21		21 company as a person most knowledgeable.
22		MR. PLACITELLA: That's fine. I
23		23 wanted to make sure.
24		24
25		Q Ms. Musco, are you represented by counsel
	Page 6	Page 8
1	THE VIDEOGRAPHER: We are on the record my	1 here today?
2	name is Ray Moore representing Dynamic Evidence. The	2 A I'm with counsel representing that is
3	date today is November 28, 2018. The time is approximately	3 Johnson and Johnson.
4	10:02 a m. The name of the witness is Nancy Musco.	4 MS. O'CONNOR: As well as the
5	At this time the attorneys present in the room	5 witness.
6	will identify themselves and the parties they represent.	6 Q And are you paying for your
7	MR. PLACITELLA: Chris Placitella on	7 representation?
8	behalf of the plaintiffs.	8 A No.
9	MS. KALAC: Amie Kalac from Hoagland, Longo	9 Q Is counsel to your left your lawyer or
10	on behalf of Whittaker, Clark and Daniels.	only for purposes of this deposition?
11	MR. GOLDSTEIN: Sebastian Goldstein from	11 A Only for purposes of the deposition.
12	Rawle and Henderson on behalf of Cyprus Amax.	Q When did you retain her?
13	MS. O'CONNOR: Kathy O'Connor from Orrick,	A I guess it would be about a month ago.
14	Herrington & Sutcliffe on behalf of Johnson and Johnson.	Q What were the terms of that retainer?
15	MS. PAVONE: Paige Pavone from Orrick also	15 A The terms were to prepare for this
16	on behalf of Johnson and Johnson.	deposition and to do the deposition.
17	The court reporter will now swear in the	MS. O'CONNOR: I want to be careful.
18	witness.	We are getting close to privilege.
19	NANCY MUSCO,	19 Q Your current job is what?
20	13 Mershon Lane, Plainsboro, New Jersey, sworn.	20 A I'm retired now, but I work for Dress for
21	DIRECT EXAMINATION BY MR. PLACITELLA:	21 Success, Central, New Jersey as program manager.
		Q Do you have any ongoing relationship with
22	Q Ms. Musco, how are you?	
	•	23 Johnson and Johnson?
22	A Good morning, I'm fine.	23 Johnson and Johnson?
22 23	A Good morning, I'm fine.	23 Johnson and Johnson?

	Page 9		Page 11
1	A Yes.	1	Q Around 1986 or so you changed jobs?
2	Q And where is that?	2	A Changed departments. Still had some of
3	A That is in Central New Jersey.	3	the same responsibility.
4	Q The address?	4	Q What department did you move to then?
5	A 13 Mershon Lane.	5	A I moved to the marketing department then.
6	Q You went to school at the University of	6	Q What was your job title?
7	Bridgeport?	7	A It was still medical services. I was
8	A That's correct.	8	medical services manager at the time.
9	Q Is that where you got your nursing degree?	9	Q What were your jobs responsibilities as
10	A Yes.	10	medical services manager?
11	Q And you graduated when?	11	A The same, to respond to consumers for
12	A 1974.	12	medical and safety issues, and at that time I had a
13	Q At some point in time you went to the	13	team of nurses working with me.
14	Wharton School for a management certificate. Is	14	Q The first job you had, what products were
15	that fair?	15	you responsible for or did you have interaction
16	A Yes.	16	with?
17	Q Any other education besides that?	17	A The first job was all for Johnson's Baby
18	A No.	18	Products.
19	Q When did you leave Johnson and Johnson?	19	Q What products did that include?
20	A 2011.	20	A A lot of products.
21	Q And you began when?	21	Q The primary ones.
22	A 1981.	22	A Johnson's Baby Shampoo, Johnson's Baby
23	Q Can you trace for me the job	23	Lotion, Johnson's Baby Wash and Johnson's Baby
24	responsibilities that you had at Johnson and Johnson	24	Powder, Johnson's Baby Powder Corn Starch, Johnson's
25	through your employment, and I may stop you along	25	Baby Oil.
	anough your improvingment, and I may crop you mong		
	Page 10		D 10
	1490 10		Page 12
1	the way?	1	Q And the second job you had when you
1 2	-	1 2	
	the way?		Q And the second job you had when you
2	the way? A My main responsibilities were	2	Q And the second job you had when you changed departments in 1986, what products were you
2	the way? A My main responsibilities were communicating with consumers about our products.	2 3	Q And the second job you had when you changed departments in 1986, what products were you involved with?
2 3 4	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at	2 3 4	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that
2 3 4 5	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall?	2 3 4 5	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer
2 3 4 5 6	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant.	2 3 4 5 6	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care
2 3 4 5 6 7	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any	2 3 4 5 6 7	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products.
2 3 4 5 6 7 8	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant?	2 3 4 5 6 7 8	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986,
2 3 4 5 6 7 8 9	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any	2 3 4 5 6 7 8	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you
2 3 4 5 6 7 8 9	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any medical or safety issues.	2 3 4 5 6 7 8 9	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you working for?
2 3 4 5 6 7 8 9 10	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any medical or safety issues. Q How long did you have that job?	2 3 4 5 6 7 8 9 10 11	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you working for? A At that time, 1986, I was in the marketing
2 3 4 5 6 7 8 9 10 11 12	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any medical or safety issues. Q How long did you have that job? A That would be it is hard to remember a	2 3 4 5 6 7 8 9 10 11 12	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you working for? A At that time, 1986, I was in the marketing department.
2 3 4 5 6 7 8 9 10 11 12 13	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any medical or safety issues. Q How long did you have that job? A That would be it is hard to remember a long time ago. Approximately six or seven years.	2 3 4 5 6 7 8 9 10 11 12 13	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you working for? A At that time, 1986, I was in the marketing department. Q What division?
2 3 4 5 6 7 8 9 10 11 12 13 14	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any medical or safety issues. Q How long did you have that job? A That would be it is hard to remember a long time ago. Approximately six or seven years. Q Who did you report to when you worked	2 3 4 5 6 7 8 9 10 11 12 13 14	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you working for? A At that time, 1986, I was in the marketing department. Q What division? A That was Johnson's, I think, Consumer
2 3 4 5 6 7 8 9 10 11 12 13 14 15	the way? A My main responsibilities were communicating with consumers about our products. Q What was the first job title you had at Johnson and Johnson, if you recall? A Medical services assistant. Q What specifically was your job responsibility as medical services assistant? A To respond to consumer contacts about any medical or safety issues. Q How long did you have that job? A That would be it is hard to remember a long time ago. Approximately six or seven years. Q Who did you report to when you worked there?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q And the second job you had when you changed departments in 1986, what products were you involved with? A All of the same products. About that time, or a little bit later, we became consumer products, so I was responsible for our world care products and our oral products. Q You took this job in approximately 1986, and what part of Johnson and Johnson were you working for? A At that time, 1986, I was in the marketing department. Q What division? A That was Johnson's, I think, Consumer Products at that time.
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	Page 13		Page 15
1	A Pretty much until mid 2000s.	1	department at Johnson and Johnson?
2	Q And who were your supervisors?	2	A Yes.
3	A A lot of different ones. Tom Demusio was	3	Q What were your job responsibilities?
4	one, Richard Chase was another. That's all I	4	A The same, to respond to consumers for
5	remember right now.	5	medical and safety issues.
6	Q During that periods of time did you have	6	Q Why were you moved from one department to
7	responsibility in the capacity you were working for	7	the other?
8	Johnson's Baby Powder?	8	A I can't really say. It was organizational
9	A Yes, I did.	9	changes.
10	Q What geographic locations were you	10	Q And what division of Johnson and Johnson
11	responsible for? Was it the U.S., beyond or what,	11	did you work for when you worked in R and D?
12	for Johnson's Baby Powder?	12	A At that time it would have been Consumer
13	A At that time?	13	Products.
14	Q Yes, Ma'am.	14	Q What specifically was your job title and
15	A At that time it was U.S.	15	responsibility?
16	Q During that period of time from 1986 to	16	A My job title would have been still medical
17	2001?	17	services manager, and my responsibilities would have
18	A Approximately.	18	been to respond to consumers for medical and safety
19	Q Did you have interaction with other	19	issues.
20	departments within Johnson and Johnson as it related	20	Q Other than responding to consumers, did
21	to Johnson's Baby Powder?	21	you ever respond to physicians?
22	A Yes, definitely.	22	A Yes, from time to time.
23	Q What departments?	23	Q What about the people in the U.S.
24	A I interacted with many different	24	Government, did you ever respond to people in the
25	departments, but it would have been Quality	25	U.S. Government?
	Page 14		Page 16
1	Assurance Department, Research and Development,	1	A No, that was not my role.
2	Regulatory, Marketing, Packaging, just about every	2	0 4 4 4 4 4 4 5 5 5 5 5 5 5
2		4	Q And you held that position in R&D from
3	department in the company.	3	Q And you held that position in R&D from 2005 or 6 until when?
4	department in the company. Q What specifically was your department		
		3	2005 or 6 until when? A Until I left in 2012. Q Why did you leave in 2012?
4	Q What specifically was your department	3 4	2005 or 6 until when? A Until I left in 2012.
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4 5 6	Q What specifically was your department called? A At that time my department was called Medical Services, I believe. Q The function of Medical Services	3 4 5 6	2005 or 6 until when? A Until I left in 2012. Q Why did you leave in 2012? A The company was downsizing.
4 5 6 7	Q What specifically was your department called? A At that time my department was called Medical Services, I believe. Q The function of Medical Services Department was what?	3 4 5 6 7	2005 or 6 until when? A Until I left in 2012. Q Why did you leave in 2012? A The company was downsizing. Q At the time you left in 2012, what was your annual salary? A I don't remember.
4 5 6 7 8	Q What specifically was your department called? A At that time my department was called Medical Services, I believe. Q The function of Medical Services Department was what? A To respond to consumers for medical and	3 4 5 6 7 8 9	2005 or 6 until when? A Until I left in 2012. Q Why did you leave in 2012? A The company was downsizing. Q At the time you left in 2012, what was your annual salary? A I don't remember. Q Did you leave with a pension?
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	Page 17		Page 19
1	A I worked for a company.	1	by the way?
2	Q What company?	2	A All consumer products.
3	A It was called Med Global.	3	Q All consumer products?
4	Q How long did you have that job?	4	A Yes.
5	A About a year and a half, maybe two years.	5	Q Would that include Johnson's Baby Powder?
6	Q Then what did you do?	6	A Yes.
7	A Well, at that time I was working for Dress	7	Q Would it include Johnson and Johnson
8	for Success also, and I continued to do that.	8	Shower to Shower?
9	Q When is the last time you worked for	9	A Yes.
10	Johnson and Johnson, you did work for Johnson and	10	Q When you had to make sure that the claims
11	Johnson?	11	were you were able to back up what you were
12	A The last time I worked directly for	12	saying basically? Is that what you are saying?
13	Johnson and Johnson would have been 2012.	13	MS. O'CONNOR: Objection to the form.
14	Q When you were working as a private	14	You can answer.
15	contractor for Johnson and Johnson after you	15	Q Scientifically?
16	retired, who at Johnson and Johnson did you interact	16	MS. O'CONNOR: Same objection.
17	with primarily?	17	A Yes. My role was to ensure that there was
18	A The Research Department.	18	substantiation, or backup, as you called it, on
19	Q Who specifically?	19	file for whatever claims were made on the
20	A Specifically Nina Turney.	20	products.
21	Q Let me back up for one second. When you	21	Q For example, if a claim was being made
22	worked in R and D, who did you report to?	22	that Johnson and Johnson's Baby Powder never killed
23	A When I worked as a consultant?	23	a child, you would have substantiation for that?
24	Q No, when you worked for Johnson and	24	MS. O'CONNOR: Objection to the form.
25	Johnson in the R and D, who did you report to?	25	You can answer.
2.5	Johnson in the R and D, who did you report to:	25	Tou can answer.
	Page 18		7 00
	1490 10		Page 20
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1 2		1 2	-
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2	MS. O'CONNOR: Objection to the form. You can answer. A I reported to director one of the	2 3	A Well, Q No child ever lost his life as a result of using Johnson and Johnson Baby Powder, you would
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2 3 4 5	MS. O'CONNOR: Objection to the form. You can answer. A I reported to director one of the directors in R and D. Q Who was that?	2 3 4 5	A Well, Q No child ever lost his life as a result of using Johnson and Johnson Baby Powder, you would make sure that was an accurate statement? MS. O'CONNOR: Objection to the form.
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Page 21 Page 23 1 Q If a claim was made that testing was done 1 provided. We know every product goes through the 2 2 of a specific Johnson and Johnson product, you would same process. 3 be provided access to all the testing and look at it 3 So we would review any testing. I 4 4 wouldn't review it, I would rely on my team members 5 5 MS. O'CONNOR: Objection, vague and to review it, and that would substantiate whatever 6 ambiguous. Mischaracterizes the testimony. You can 6 we were saying on the label. 7 7 answer. Q This is what I'm trying to understand. 8 8 A No, I would rely on the team members for There are people at Johnson and Johnson that -- they 9 9 have the information about the claims that are being that. 10 Q So you would not personally review the 10 made concerning the product, correct? 11 testing documents, you would speak to someone and 11 A Correct. 12 they would provide you with information. Is that 12 O They are people in R and D primarily? 13 That's part of the team, yes. 13 fair? 14 A I would speak to the appropriate members 14 Who else? 15 of the team, yes. 15 A Regulatory. 16 Q With no disrespect, how was it that you 16 Okay. Q were qualified to do that, to substantiate claims 17 A It may be pretty much regulatory and the 17 18 related to, for example, product safety? 18 development people who are part of research and 19 MS. O'CONNOR: Objection to the form 19 development. 20 of the question. Vague and ambiguous, 20 Q So you have people in regulatory, you have Mischaracterizes the testimony. You can answer. people who have the actual knowledge, correct? 21 21 22 Those are the people in R and D? 22 A Again, when I was doing substantiating, or 23 ensuring there was substantiation for the claims, 23 A Correct. 24 24 they were product claims, not safety claims. They Q They have actual, either personal 25 were product claims. 25 knowledge or access to the testing that verifies the Page 22 Page 24 1 1 Q What is the difference? claim, correct? 2 A One has to do, by the example you gave, 2 A They would have some of it, yes. We would 3 ingredients in a product, what the product does, 3 have, our quality assurance department might have 4 some. Depending on what it is, there's a lot of 4 things like that. 5 5 people involved. I did not substantiate them, I relied 6 6 Q What I'm trying to understand is if all on people within the team and mainly the research 7 7 that knowledge is within Johnson and Johnson, with and development team. 8 all due respect, why do they need you? 8 Q Do you know why Johnson and Johnson 9 subcontracted that function out to you versus doing 9 A To ensure that we had all that knowledge 10 it themselves? 10 really in one place. MS. O'CONNOR: Objection, ambiguous, Q But there's nobody in Johnson and Johnson 11 11 12 that knew it was all in one place? 12 calls for speculation. 13 A It is not a question of knowing it is in 13 A No. 14 Q Did you have responsibility for 14 one place, it was documented that we have it and substantiating product safety claims? 15 putting it in one place. What do you mean by one 15 A Again, I didn't substantiate them, I 16 16 17 insured that there was substantiation by relying on 17 Q If a claim is made about, for example, 18 the members of the team. 18 Johnson's Baby Powder, how did you document it as Q So, for example, if a claim was made by 19 part of your function in that job capacity as an 19 20 Johnson and Johnson that baby powder was safe for 20 outside contractor? babies, what would you go through? What process 21 21 A Well, after working with the various team 22 would you go through in order to fulfill your 22 members we had a computer system where we would 23 function? 23 document the information, where it could be found. We didn't have it all in there. It was too long A There's a process that every product goes 24 24 25 through to ensure the safety. That is what would be 25 to put in that particular system.

	Page 25		Page 27
1	Q When you say we had a computer system, was	1	Q In preparation for today's deposition, did
2	that Johnson and Johnson's computer system or your	2	you review any documents?
3	company's computer system?	3	A No.
4	A It was Johnson and Johnson's system.	4	Q Did you review any sworn testimony by any
5	Q So you, as an outside contractor, you had	5	witness?
6	direct access to Johnson and Johnson's computer	6	A No.
7	system?	7	Q Did you speak to anybody, other than
8	MS. O'CONNOR: Objection to the form	8	counsel?
9	of the question.	9	A No.
10	A At that time, yes.	10	Q How many times did you meet with counsel?
11	Q What was the name of that computer system	11	A Twice.
12	or that computer program?	12	Q For how long and when?
13	A I don't remember.	13	A One day last week and Monday of this week.
14	Q Who was the person in charge of it? Was	14	Q For how long last week and how long on
15	it Tom Cox? Did you know Tom Cox?	15	Monday?
16	A No.	16	A About six hours each day.
17	Q Who was the person in charge of	17	Q In those meetings, you never looked at any
18	administering that computer program?	18	documents that would help you refresh your memory
19	A I don't remember.	19	concerning events that happened while you were
20	Q Am I correct that you, just so we go	20	there?
21	through this, you have no expertise in interpreting	21	A No, I did not.
22	epidemiology?	22	Q Did you ever testify for Johnson and
23	A That's correct.	23	Johnson in any trials?
24	Q You have no expertise in interpreting	24	A No, I did not.
25	toxicology?	25	Q When you met with counsel for Johnson and
	Page 26		Page 28
		1	_
1	A That is correct.	1	Johnson, were you paid for your time?
1 2	Q You have no expertise in testing methods	1 2	A No, I was not.
	Q You have no expertise in testing methods for contaminants in Johnson's Baby Powder?		A No, I was not. Q Are you being paid for your time today?
2	Q You have no expertise in testing methods for contaminants in Johnson's Baby Powder? A That's correct.	2	A No, I was not.Q Are you being paid for your time today?A I received \$2 with my subpoena.
2 3 4 5	Q You have no expertise in testing methods for contaminants in Johnson's Baby Powder?A That's correct.Q You have no expertise in how to construct	2 3 4 5	 A No, I was not. Q Are you being paid for your time today? A I received \$2 with my subpoena. Q If this goes well, I'll raise it a dollar
2 3 4	 Q You have no expertise in testing methods for contaminants in Johnson's Baby Powder? A That's correct. Q You have no expertise in how to construct a proper warning in order to reflect the information 	2 3 4	A No, I was not. Q Are you being paid for your time today? A I received \$2 with my subpoena. Q If this goes well, I'll raise it a dollar fifty.
2 3 4 5 6 7	Q You have no expertise in testing methods for contaminants in Johnson's Baby Powder? A That's correct. Q You have no expertise in how to construct a proper warning in order to reflect the information that's known about the product?	2 3 4 5 6 7	A No, I was not. Q Are you being paid for your time today? A I received \$2 with my subpoena. Q If this goes well, I'll raise it a dollar fifty. Did you ever have any prior
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q You have no expertise in testing methods for contaminants in Johnson's Baby Powder? A That's correct. Q You have no expertise in how to construct a proper warning in order to reflect the information that's known about the product? A I'm not an expert, but I'm knowledgeable and would take information from all the valid resources. Q Have you ever had any training or education in the subject of what a proper warning should look like? A No. Q Do you know, for example, what the difference is in warning theory between a caution and a warning and when you would use each? A Again, I'm knowledgeable. I'm not an expert. That would really fall under regulatory's role. Q Who at regulatory is the person who was specifically knowledgeable about that issue? A There were a lot of people in regulatory.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A No, I was not. Q Are you being paid for your time today? A I received \$2 with my subpoena. Q If this goes well, I'll raise it a dollar fifty. Did you ever have any prior involvement on behalf of Johnson and Johnson in litigation related to Johnson's Baby Powder? A Yes. Q What was that involvement? A Preparing information or delivering information to Johnson and Johnson's legal department. Q When was that? A I couldn't tell you specifically. I don't remember. Q Was it the '80s, the '90s, 2000s? Do you have any clue? How many times did that happen? A I'm going to say the '80s, but I really don't remember the specific dates. Q Was that part of your ongoing role, to interact with the lawyers at Johnson and Johnson in

	Page 29		Page 31
1	Q When you say point person, what does that	1	Q Did that ever happen?
2	mean?	2	MS. O'CONNOR: Objection to the
3	A There's so many departments and so many	3	mischaracterization.
4	different people at Johnson and Johnson that really	4	A That may have happened, yes.
5	I was the person who could help direct whatever	5	Q How many cases over the years that you
6	question or whatever information was needed.	6	worked for Johnson and Johnson were you involved in
7	Q For example, if a specific question was	7	that related to Johnson's Baby Powder?
8	posed in a lawsuit, you would be the person that	8	A I don't remember.
9	gathered the information to answer that question?	9	Q Was it more than one?
10	MS. O'CONNOR: Objection to the form.	10	A Yes. I would say more than one.
11	A I would again go to the appropriate	11	Q Did you ever work on any cases related to
12	department to supply that answer or direct the	12	the Shower to Shower product?
13	attorney to that department.	13	A Not that I remember, no.
14	Q If there was a question in a lawsuit that	14	Q In the cases you worked on related to
15	said, or you were directed to secure all the testing	15	Johnson's Baby Powder, do you know what injuries
16	information that Johnson and Johnson had as to	16	were being alleged by the people suing Johnson and
17	whether the Johnson's Baby Powder ever contained	17	Johnson?
18	asbestos, that would be part of your function?	18	A Yes. There have been allegations of lung
19	MS. O'CONNOR: Objection to the form.	19	disease.
20	You can answer.	20	Q When you say lung disease, what do you
21	A Again, I would direct our attorneys to the	21	mean by that?
22	appropriate department for that.	22	A Allegations of lung cancer or any
23	Q You would, for example, then say to the	23	breathing diseases.
24	lawyers, you should go talk to Mr. Jones in R and D	24	Q Did that include claims for talcosis?
25	and Mrs. McGillicutty in quality assurance, that	25	A It may have. I don't remember
23	and 19113. Pre-Officeatty in quarity assurance, that	20	71 R may have. I don't remember
	Page 30		Page 32
1	kind of thing?	1	specifically.
2	MS. O'CONNOR: Objection to the form.	2	Q Do you know what talcosis is?
3	You can answer the question.	3	A Yes.
4	A Yes.	4	Q What is it?
5	Q Did you have actual knowledge concerning	5	A It is an inflammation.
6	the records that were available in the various	6	Q Related to the inhalation of what?
7	departments that were used to support or answer	7	A Of talc.
8	questions for litigation?	8	Q Did you ever defend cases or help defend
9	MS. O'CONNOR: Objection, vague,	9	cases involving ovarian cancer?
10	ambiguous. You can answer.	10	MS. O'CONNOR: Objection to the form.
11	A I knew of them.	11	You can answer.
12	Q Did you actually ever review the records	12	A I may have, again, in my role as point
13	yourself to determine whether they were accurate and	13	person, may have provided or directed information.
14	complete in assisting in a litigation support role?	14	Q What about mesothelioma?
15	MS. O'CONNOR: Objection. Vague and	15	A Specifically, no.
16	ambiguous. You can answer.	16	Q Now, in order to perform the jobs you had
17	A I did not review them.	17	properly, did you need to understand how the various
18	Q Did you actually ever take physical	18	products you were working on were applied to the
19	control of the records and transfer them to legal?	19	human body?
20	A I don't remember, no.	20	A Yes.
21	Q So you would your function would be to	21	Q Did you need to understand how the
22	tell legal you need to speak to Dr. Ashton about	22	products were being advertised?
23	this subject, and he will have the records, for	23	A I did not need to understand, but that was
24	example?	24	part of it.
25	MS. O'CONNOR: Objection.	25	Q It was part of your job to understand

	Page 33		Page 35
1	or	1	389. All the documents, unless I tell you otherwise
2	A To be aware.	2	today, are documents that were given to us by
3	Q To be aware and knowledgeable?	3	Johnson and Johnson.
4	A Yes, to be aware.	4	This a document dated October 13,
5	Q I want to focus a little bit now	5	1971 from a Mr. Kulkarni. Do you have any idea who
6	specifically on Johnson's Baby Powder, okay?	6	he was?
7	Am I correct that Johnson and Johnson	7	A No, I do not.
8	had recommended the liberal application of Johnson's	8	Q Do you recognize any of the people who are
9	Baby Powder to babies for many decades?	9	cc'd on this document?
10	MS. O'CONNOR: Objection to the form	10	A I recognize two names.
11	of the question. Vague and ambiguous. You can	11	Q Which names do you recognize?
12	answer it.	12	A The second one, Jim Dettre and the second
13	A Johnson's Baby Powder has been in existence	13	to the last, Dr. Sawchuck.
14	for many decades, yes. I'm not sure what you mean	14	Q What was your understanding of Mr. Dettre's
15	by liberal application.	15	job?
16	Q Did you actually ever see Johnson and	16	A I don't know because, as you said, this
17	Johnson's advertisements historically where they	17	was dated 1971.
18	recommended or indicated that the baby powder should	18	Q What did he do when you knew him? What
19	be applied liberally?	19	was his job?
20	MS. O'CONNOR: Same objection. You	20	A I believe he worked with professionals at
21	can answer.	21	the time when I first knew him, but that was a long
22	A No, I don't remember seeing anything that	22	time ago. I don't know exactly what his title was.
23	said that.	23	Q What about Dr. Sawchuk, what was his job,
24	Q I'm going to hand you what's been marked	24	if you know?
25	388. I'll put it up on the screen.	25	A Again I don't know what his job was in
	D 24		
	Page 34		Page 36
1	Page 34 This is an advertisements for	1	Page 36
1 2	This is an advertisements for	1 2	1971, so I can't say.
2	This is an advertisements for Johnson's Baby Powder. Do you see that?	2	1971, so I can't say. Q What job did he have when you knew him?
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2 3 4 5	This is an advertisements for Johnson's Baby Powder. Do you see that? A Yes. I see that. Q In the upper left hand corner where it talks about liberal application of Johnson's Baby Powder will do wonders. Do you see that?	2 3 4 5	1971, so I can't say. Q What job did he have when you knew him? A I don't know what his title was. Q Do you see in the second paragraph, it talks about applying Johnson Baby powder liberally to the diaper for extra protection?
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	Page 37		Page 39
1	thirty years later, also talking about liberal	1	Q As I read in some documents that you
2	application, correct?	2	actually had some personal experience with this with
3	MS. O'CONNOR: Objection.	3	your own kids, right?
4	Mischaracterization of the document. You can	4	A Yes. I commonly used Johnson's Baby
5	answer.	5	Powder on both my children.
6	A Again, I can't say anything about these,	6	Q Is this consistent with what you did with
7	but it appears the one from 1971 is talking about	7	your kids?
8	applying the powder on the diaper.	8	A Yes, it is.
9	Q Liberally.	9	Q When you used the baby powder on your
10	A They use the world liberal, yes.	10	kids, and you were finished using it, where would
11	Q Now, by the way, if you know, who was Maria	11	you typically put it down? Near the head or near
12	Pilar Garcia Villacorte?	12	the feet?
13	A I don't know.	13	A Near the feet.
14	Q Do you know who Christine Sanchez was?	14	Q Near the feet?
15	A No.	15	A Yes.
16	Q I'm going to show you exhibits 408. This	16	Q Did you have any concerns that the child
17	is from 2001. You were working at Johnson and	17	might kick it over?
18	Johnson in 2001, correct?	18	A I may have thought of that. I don't know.
19	A Yes.	19	I usually closed it after using it.
20	Q Have you ever seen this particular Power	20	Q In a child under the age of six months,
21	Point before? Take a quick look at it.	21	what is the furthest point from the mouth that the
22	A No.	22	baby powder would be used on a child in your
23	MS. O'CONNOR: There are dates on	23	experience?
24	this document that I don't think were on the	24	A It could be used on the legs, behind the
25	original. I think it is a print date.	25	knees, on the feet.
	Page 38		Page 40
1		1	
1	MR. PLACITELLA: That's us. Go ahead.	1	Q Is that usually, what, within a foot of the mouth?
2	A This does not seem familiar to me, no.	2	A No.
4	Q I put up on the screen a page from the	3 4	
5	Power Point that states, "Areas of the body where		Q What is the farthest point from the mouth in your estimation on a child that the baby powder
6	powder is commonly used on adults." Do you see	5 6	would be applied in terms of distance?
7	there?	7	A Depends on the length of the baby. As I
8	A That's what is says, yes.	8	said, it would be on their foot, behind their knees.
9	Q Is this consistent with your understanding	9	Q What is the closest point to the mouth and
10	about where Johnson's Baby Powder was commonly used	10	nose?
11	on adults?	11	A Under the neck folds.
12	MS. O'CONNOR: Objection to the	12	Q I wrote down a question on this piece of
13	mischaracterization of the document.	13	paper, and the question is, and this is my
14	A Yes, I would agree with that.	14	handwriting by the way. Can you see it up on your
15	Q If you go to the next page, I also put up	15	screen?
	on the screen areas of the body where baby powder is	16	A Yes.
16	· · · · · · · · · · · · · · · · · · ·	17	O "Did the talc that was used in any I and I
	commonly used on a baby. Do you see that?	17 18	Q "Did the talc that was used in any J and J Baby Powder product ever contain any amounts of
16 17 18	commonly used on a baby. Do you see that? A Yes, I do.		Baby Powder product ever contain any amounts of
16 17	commonly used on a baby. Do you see that? A Yes, I do. Q It shows the neck, the underarms, the	18	•
16 17 18 19	commonly used on a baby. Do you see that? A Yes, I do. Q It shows the neck, the underarms, the folds in the skin and the diaper area, correct?	18 19	Baby Powder product ever contain any amounts of asbestos?" Do you see that? A I see that.
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16 17 18 19 20 21 22	commonly used on a baby. Do you see that? A Yes, I do. Q It shows the neck, the underarms, the folds in the skin and the diaper area, correct? A Yes.	18 19 20 21 22	Baby Powder product ever contain any amounts of asbestos?" Do you see that? A I see that. Q That was a question that, or questions
16 17 18 19 20 21 22 23	commonly used on a baby. Do you see that? A Yes, I do. Q It shows the neck, the underarms, the folds in the skin and the diaper area, correct? A Yes. Q Is that consistent with your understanding about where the product was commonly used on	18 19 20 21 22 23	Baby Powder product ever contain any amounts of asbestos?" Do you see that? A I see that. Q That was a question that, or questions like that that you were called upon to answer as part of your job at Johnson and Johnson, correct?

	Page 41		Page 43
1	again by people outside of Johnson and Johnson from	1	regulatory, our marketing, different people in
2	almost the time you started working there, correct?	2	research and probably quality assurance, but I don't
3	MS. O'CONNOR: Objection to form	3	know for sure.
4	of the question. You can answer.	4	Q In this particular document, which was
5	A I know it was a question that we received,	5	1986, I'll blow up the paragraph, you said, and this
6	yes.	6	is about the conversation you had with the nurse at
7	Q And part of your job was to answer that	7	the hospital, correct?
8	question repeatedly on an ongoing basis, correct?	8	A Yes.
9	MS. O'CONNOR: Objection to the form.	9	Q And the nurse raised the issue about
10	Vague and ambiguous.	10	whether baby powder could cause cancer or lung
11	A We provided that information when the	11	disease?
12	consumers asked it, yes.	12	A That's what she was questioning.
13	Q Now, even when you were dealing with your	13	Q You told her what your position was at
14	own child in the hospital, that issue was raised to	14	Johnson and Johnson, according to this, right?
15	you specifically by health care providers in the	15	A That's what it says, yes.
16	hospital lot, correct?	16	Q And you said that you had studies
17	MS. O'CONNOR: Objection to the form	17	disputing the statement that talc causes lung
18	of the question. Vagues and ambiguous. You can	18	disease, correct?
19	answer.	19	A I said we have studies.
20	A Yes. One nurse did say that.	20	Q What studies were you referring to? Do
21	Q What do you recall about that exchange?	21	you know?
22	A Going back a few years to when my daughter	22	A I don't know specifically.
23	was born. The nurse in the post partum, after birth	23	Q It says, and it also talks about ovarian
24	area, said, "Oh, don't use baby powder." And I	24	cancer. Was the subject of ovarian cancer discussed
25	asked her why, and she said, "It is dangerous,"	25	with the nurse back in 1986?
	Page 42		Page 44
			I aue 11
1		1	_
1	but she didn't know why.	1 2	A It is looks like that was brought up. I
2	but she didn't know why. Q Your response was what?	2	A It is looks like that was brought up. I don't remember what was specifically other than
	but she didn't know why. Q Your response was what? A That it was not dangerous.	2 3	A It is looks like that was brought up. I don't remember what was specifically other than what's here.
2 3	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that	2 3 4	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought
2 3 4	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson?	2 3	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the
2 3 4 5	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did.	2 3 4 5	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought
2 3 4 5 6	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2,	2 3 4 5 6	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse? A I don't remember the conversation and I
2 3 4 5 6 7	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2, 1986, and ask you to take a look at it. And while	2 3 4 5 6 7	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse?
2 3 4 5 6 7 8	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2, 1986, and ask you to take a look at it. And while you are doing that, I'm going to go over this	2 3 4 5 6 7 8	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse? A I don't remember the conversation and I don't see anything about asbestos here with that nurse.
2 3 4 5 6 7 8 9	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2, 1986, and ask you to take a look at it. And while	2 3 4 5 6 7 8 9	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse? A I don't remember the conversation and I don't see anything about asbestos here with that nurse.
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2 3 4 5 6 7 8 9 10 11	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2, 1986, and ask you to take a look at it. And while you are doing that, I'm going to go over this question that in we went over in black pen so everybody can read it. Exhibit 325 is a June January 2, 1986	2 3 4 5 6 7 8 9 10 11 12	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse? A I don't remember the conversation and I don't see anything about asbestos here with that nurse. Q So if I go to the next page, you document that the nurse told you that somebody from Johnson and Johnson told her specifically that the baby
2 3 4 5 6 7 8 9 10 11 12 13	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2, 1986, and ask you to take a look at it. And while you are doing that, I'm going to go over this question that in we went over in black pen so everybody can read it. Exhibit 325 is a June January 2, 1986 memo that you wrote and the re is Johnson's Baby	2 3 4 5 6 7 8 9 10 11 12 13	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse? A I don't remember the conversation and I don't see anything about asbestos here with that nurse. Q So if I go to the next page, you document that the nurse told you that somebody from Johnson and Johnson told her specifically that the baby powder was being taken off the market because it
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	but she didn't know why. Q Your response was what? A That it was not dangerous. Q Now, did you actually communicate that exchange within Johnson and Johnson? A Yes, I believe I did. Q I'm going to show you a memo January 2, 1986, and ask you to take a look at it. And while you are doing that, I'm going to go over this question that in we went over in black pen so everybody can read it. Exhibit 325 is a June January 2, 1986 memo that you wrote and the re is Johnson's Baby Powder, correct? A That is correct. Q Do you see that? It says to distribution. What does that mean? A I would I don't remember, but that would be a group of people who routinely copied on or sent information about specific issues. Q Distribution, did that go beyond your department? A Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A It is looks like that was brought up. I don't remember what was specifically other than what's here. Q Was the subject of asbestos also brought up in the context of your conversation with the nurse? A I don't remember the conversation and I don't see anything about asbestos here with that nurse. Q So if I go to the next page, you document that the nurse told you that somebody from Johnson and Johnson told her specifically that the baby powder was being taken off the market because it contained asbestos, right? A That's what it says here, that the nurse said, the second nurse. Q You said you immediately responded that the product did not contain asbestos, correct? A That's correct. Q So you discussed with the nurse in 1986 the subject of asbestos, cancer, ovarian cancer and lung disease, correct? A Two different nurses I had a conversation

	Page 45		Page 47
1	hospital who both raised the issue about whether	1	company.
2	Johnson's Baby Powder was capable of causing lung	2	Q "Johnson's Baby Powder does not contain
3	disease and cancer, correct?	3	asbestos. I explained we own our talc mines and
4	A The first nurse did question, according to	4	have complete control over the product." Do you see
5	the notes here, cancer and lung disease. And the	5	that?
6	the second nurse, yes.	6	A Yes.
7	Q When you were making statements that the	7	Q What was the source of that information
8	product doesn't contain asbestos, had you actually	8	that you conveyed to this person?
9	seen testing results showing that the product	9	A What do you mean, the source?
10	doesn't contain asbestos, or were you relying upon	10	Q You say we have complete control of our
11	someone else for that information?	11	talc mines. Control over the product. What is the
12	A I would rely on members of my team who	12	source of that information?
13	were experts in that field.	13	A That would have been information from
14	Q And who specifically at that time?	14	manufacturing and quality assurance.
15	A At that time I don't remember too many	15	Q Who specifically, if you remember?
16	names. It may have Don Hicks in quality assurance.	16	A As I said earlier, I don't remember. One
17	I don't remember a lot of names 30 years ago.	17	one name I remember Don hicks.
18	Q That is fair enough.	18	Q Was it also part of your function, in
19	I'm going to show you Exhibit 358 and	19	addition to responding to consumers, to respond to
20	ask you to take a look at that. 358 is another memo	20	the media as it related to safety of the products
21	that was authored by you on the same date, correct?	21	you were involved with?
22	A Yes.	22	A Yes, it was.
23	Q It was about Johnson's Baby Powder and you	23	Q I'm going to show you Exhibit 410. I'll
24	sent it to the distribution list, correct?	24	tell you this is not from Johnson and Johnson's
25	A That's what it says, yes.	25	files, but you would be happy to know that Nancy
	Page 46		Page 48
1	Q On the re it says redacted personal	1	Musco lives on on the internet. We pulled this off
2	information. What kind of personal information	2	the internet.
3	would you put on a re about Johnson's Baby Powder	3	This is an article entitled:
4	that no one is allowed to see?	4	"Asbestos has not been found in talcum powder, firm
5	MS. O'CONNOR: Objection to the form	5	says," and the date is June 4, 1987. Do you see
6	of the question. Argumentative and ambiguous. You	6	that?
7	can answer.	7	A Yes, I see that.
8	A I didn't redact it, so I don't know what	8	Q Do you recall the circumstances of this
9	that is.	9	article?
10	Q You state that on December 26, 1985, you	10	A No, I do not.
11	spoke with, and then it is whited out, concerning.	11	Q It states here, "Nancy Musco, a registered
12	MS. O'CONNOR. Redacted.	12	nurse and manager of Johnson and Johnson Medical
13	Q Redacted, concerning the safety of	13	Services, assures us that her company's source of
14	Johnson's Baby Powder. Then it is redacted and it	14	talc since the 1920s, chosen for its purity has been
15	says, "Claims he heard a new report on WINS Radio	15	Italy and later Vermont, and the same sources are
16	stating that Johnson's Baby Powder contains	16	used today. When the asbestos issue arose in 1970,
	particles of asbestos and children with weak trachea	17	the company started formally testing for asbestos
17	11.11.6		with the claim that non ever was found " 1 to you see
18	could die from its use." Do you see that?	18	with the claim that non ever was found." Do you see
18 19	A I see that, yes.	19	that?
18 19 20	A I see that, yes.Q Do you know who you spoke to?	19 20	that? A Yes, I do.
18 19 20 21	A I see that, yes.Q Do you know who you spoke to?A No.	19 20 21	that? A Yes, I do. Q Do you know what the source of that
18 19 20 21 22	A I see that, yes.Q Do you know who you spoke to?A No.Q It says, "I began my conversation by	19 20 21 22	that? A Yes, I do. Q Do you know what the source of that information was as you relate it in this news story
18 19 20 21 22 23	 A I see that, yes. Q Do you know who you spoke to? A No. Q It says, "I began my conversation by informing" was this somebody inside the company 	19 20 21 22 23	that? A Yes, I do. Q Do you know what the source of that information was as you relate it in this news story in 1987?
18 19 20 21 22	A I see that, yes.Q Do you know who you spoke to?A No.Q It says, "I began my conversation by	19 20 21 22	that? A Yes, I do. Q Do you know what the source of that information was as you relate it in this news story

	Page 49		Page 51
1	Q Is the only person you can recall Mr.	1	Q On the bottom, in the middle it talks
2	Hicks?	2	about 1976. It says, "Prior to 1976, some powders
3	A Yes. One other gentleman, Sam Jiwrajka.	3	were found to contain very minute traces of
4	Those are the only names I remember.	4	asbestos." Do you see that?
5	Q But am I correct that you had no personal	5	A Yes.
6	knowledge of this testing. You never spoke to	6	Q Did you know that?
7	anyone who did the testing and never reviewed any of	7	A Well, the point is Johnson's Baby Powder
8	the tests yourself?	8	did not.
9	A No, that was not my role.	9	Q And what you were telling people is that
10	Q So no, it never happened?	10	no matter what was found in other people's baby
11	A Correct.	11	powder, none was ever found in Johnson's Baby
12	Q 401 I'm going to give to you, and I'll put	12	Powder, correct?
13	it up on the screen. 401 is a document with the	13	A No. What I was telling people is
14	handwriting on the top, paper number 3. Do you see	14	Johnson's Baby Powder does not contain asbestos.
15	that?	15	Q Never did and never will?
16	A Yes.	16	A Correct.
17	Q According to the production by Johnson and	17	Q Now, on the bottom, there's a note that
18	Johnson, this document came from your file. Do you	18	says, "Note, if asked questions, you should speak to
19	recognize this document?	19	the positive J and J story. For example, has
20	A No, I do not.	20	asbestos ever been found in any baby powders? And
21	Q It states on the top, "This information	21	the suggested response is I can assure you asbestos
22	was from CPI." Do you see that?	22	has never been found in Johnson's Baby Powder and
23	A Yes.	23	never will." Correct?
24	Q Do you know what CPI was?	24	A That is correct.
25	A Consumer Products, Inc.	25	Q That is exactly what you told people?
	Page 50		Page 52
1	Q So when it said the information came from	1	A Yes.
2	CPI, Consumer Products, Inc., was that a different	2	Q And that's similar to the question I wrote
	CPI, Consumer Products, Inc., was that a different part of the company or part of the company you		Q And that's similar to the question I wrote down when we started the deposition, correct?
2	CPI, Consumer Products, Inc., was that a different part of the company or part of the company you worked for?	2 3 4	Q And that's similar to the question I wrote down when we started the deposition, correct? A Yes. Johnson's Baby Powder does not
2 3 4 5	CPI, Consumer Products, Inc., was that a different part of the company or part of the company you worked for? A I don't know what year this was or where	2 3 4 5	Q And that's similar to the question I wrote down when we started the deposition, correct? A Yes. Johnson's Baby Powder does not contain asbestos.
2 3 4	CPI, Consumer Products, Inc., was that a different part of the company or part of the company you worked for? A I don't know what year this was or where this was from.	2 3 4 5 6	Q And that's similar to the question I wrote down when we started the deposition, correct? A Yes. Johnson's Baby Powder does not contain asbestos. Q Did the talc that was used in any
2 3 4 5 6 7	CPI, Consumer Products, Inc., was that a different part of the company or part of the company you worked for? A I don't know what year this was or where this was from. Q I want to ask you about some parts of it	2 3 4 5 6 7	Q And that's similar to the question I wrote down when we started the deposition, correct? A Yes. Johnson's Baby Powder does not contain asbestos. Q Did the talc that was used in any Johnson's Baby Powder product ever contain any
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2 3 4 5 6 7 8 9 10 11 12 13	CPI, Consumer Products, Inc., was that a different part of the company or part of the company you worked for? A I don't know what year this was or where this was from. Q I want to ask you about some parts of it and see if it will help. Under synopsis, it says, "Johnson and Johnson Baby Powder does not contain asbestos. Asbestos has never been found in Johnson's Baby Powder and it never will." Do you see that? A Yes, I do.	2 3 4 5 6 7 8 9 10 11 12 13	Q And that's similar to the question I wrote down when we started the deposition, correct? A Yes. Johnson's Baby Powder does not contain asbestos. Q Did the talc that was used in any Johnson's Baby Powder product ever contain any amount of asbestos, and the answer always was, never did, never will, correct? A Correct. Q Exhibit 360 is an email with a bunch of emails, a string below it. Do you see that? A Yes.
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Marketing Murphy? 1		Page 53		Page 55
2	1	Katherine Murphy?	1	noted, I was only copied and was copied after the
O So she was in marketing? A Yes. O And then to yourself, correct? O And was corporate also. O When you any comporate, what do you mean by that? A He was corporate also. O And then there's a Gary Noble? A Public relations. O And who is he? A Poblic relations. O And who is he? A Delive was R and D, research. O And who is he? A I believe he was R and D, research. O And who is he? A I believe he was R and D, research. O And who is he? A I believe he was R and D, research. O And who is he? A I believe he was R and D, research. O And who is he? A I don't know. O How about Ray Gregiore? A I don't know him. A A research and development person. C HI U D K O W S K I? A A research and development person. A A the sepacific obnson and Johnson company. I don't know what all the letters are for. I think it is Johnson and Johnson A Corporate, U.S. That's the designation of which Johnson division. A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the frey ourself it says CPCUS. What does that stand for? A Correct. O And the can all believes are for. I think it is Johnson and Johnson does not product, correct. A Correct. O And the remail starts on the bottom at that time from Mr. Gregiore saying, "Vernonica, Long's breath of the correct of the product of the correct of the mine where the haby powder, right? A Correct. O Robert was the search of the correct of the solution of the ining was that the cosmetic tale used was feed of the correct of the mines they used c	2	± *	2	
5 Q And then to yourself, correct? 6 A Yes. 7 Q To Jeffrey Lebaw, L E B A W. 8 A He was corporate also. 9 Q When you any corporate, what do you mean 10 by that? 11 A Public relations. 12 Q And then there's a Gary Noble? 13 A Yes. 14 Q And who is he? 15 A I believe he was R and D, research. 16 Q The below that are some other people who are identified and we will get them while we are sitting here. Veronica Rubio, who way she? 19 A I don't know whin. 20 Q How about Ray Gregiore? 21 A I don't know him. 22 Q How about Michael Chudkowski, 22 Q How about Michael Chudkowski, 23 C H UD K O W S K I? 23 C H UD K O W S K I? 24 A A research and development person. 25 Q And all of these emails have a parenthesis detail the letters are for. 26 L Think it is Johnson and Johnson 6 Corporate, U.S. That's the designation of which Johnson and Johnson do Gorporate, what all the letters are for. 26 J Correct? 27 A Correct. 28 Q And then for yourself it says CPCUS. What did that stand for? 29 JCUS, that's corporate? 30 A Corsent In think it is Johnson and Johnson 6 Corporate, U.S. That's the designation of which Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Corporate, U.S. That's the designation of which 15 Johnson and Johnson 6 Johnson 15 Johnson 15 Johnson 15 Johnson	3		3	Q Right. You were being told what happened
6	4	A Yes.	4	leading up to why you got the email, correct?
7 Q To Jeffrey Lebaw, LE B A W. 8 A He was corporate also. 9 Q When you any corporate, what do you mean by that? 11 A Public relations. 12 Q And then there's a Gary Noble? 13 A Yes. 14 Q And who is he? 15 A I believe he was R and D, research. 16 Q The below that are some other people who are identified and we will get them while we are sitting here. Veronica Rubio, who way she? 18 sitting here. Veronica Rubio, who way she? 19 A I don't know. 20 Q How about Michael Chudkowski, 22 Q How about Michael Chudkowski, 22 C HU D K O W S K!? 21 A I don't know him. 22 Q And all of these emails have a parenthesis 23 C HU D K O W S K!? 24 A A research and development person. 25 Q And all of these emails have a parenthesis 26 Page 54 27 C Fully K O W S K!? 28 A It the specific Johnson and Johnson company, I don't know what all the letters are for. 29 A I think it is Johnson and Johnson and Johnson documpany, I don't know what all the letters are for. 30 A It the specific Johnson and Johnso	5	Q And then to yourself, correct?	5	MS. O'CONNOR: Objection, vague and
8 A He was corporate also. 9 When you any corporate, what do you mean by that? 10 by that? 11 A Public relations. 11 1 A Public relations. 12 Q And ther there's a Gary Noble? 12 A They worked in Consumer Products, yes. Q Is says, "Im now working on Johnson's Baby Powder and Oil and received the attached email. I'm assuming that we had a standard corporate response that addresses the concern below." Correct? 16 Q The below that are some other people who is relativistical and we will get them while we are sitting here. Veronica Rubio, who way she? 19 A I don't know. 19 A I don't know what all the flotters are for. 19 Q and the response back is that the samser is simple, there's no absets on in our product, never has been and never will. Correct? 23 C H U D K O W S K I? 23 A I the specific Johnson and Johnson company. I don't know what all the letters are for. 1 think it is Johnson and Johnson 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. Thomson and Johnson division. 1 G Corporate, U.S. That's the designation of which 2 G Corporate, U.S. Thomson and Johnson 2 G Corporate, U.S. That's the designation of which 3 G Corporate, U.S. That's the designation of which 4 G Corporate, U.S. That's the designation of which 4 G Corporate, U.S. Thomson and Johnson 2 G Corporate, U.S. Thomson and Johnson 2 G Corporate, U.S. Thomson and Johnson 2 G Corporate, U.S. That's the designation of which 4 G Corporate, U.S. That's the designation of which 4 G Corporate, U.S. That's the designation of which 4 G Corporate, U.S. That's the designation of wh	6		6	ambiguous.
9 Q When you any corporate, what do you mean by that? 10 by that? 11 A Public relations. 12 Q And then there's a Gary Noble? 13 A Yes. 14 Q And who is he? 15 A I believe he was R and D, research. 16 Q The below that are some other people who are identified and we will get them while we are sitting here. Veronica Rubio, who way she? 18 sitting here. Veronica Rubio, who way she? 19 A I don't know. 20 Q How about Ray Gregiore? 21 A I don't know him. 21 A I don't know him. 22 Q How about Mchael Chudkowski, 23 CHUDKOW SK I? 24 A A research and development person. 25 Q And all of these emails have a parenthesis 26 UD KOW SK I? 27 A A research and development person. 28 A That's correct. 29 Q And all of these emails have a parenthesis 30 A It the specific Johnson and Johnson 40 company. I don't know what all the letters are for. 41 Lihink it is Johnson and Johnson 42 Corporate, U.S. That's the designation of which 43 Donson and Johnson division. 44 Q And the email starts on the bottom at that time from Mr. Gregiore saying, "Vernonica, Long's take to asbestos as reported in local Bay Area media," Correct? 44 A Consumer Products Company. 45 Q And the media and consumers, but even distributors of the Johnson Baby Powder product, correct. 46 Q So you are involved not only in dealing with the media and consumers, but even distributors of the Johnson Baby Powder product, correct. 47 A That's was the assuming that we had a standard corporate responses that addresses the concern below: Correct? Po A Don about Ray Gregiore? 4 A That's correct. 4 A Total what it we had a standard corporate responses that addresses the concern below: Correct? 4 A That's what it we had a standard corporate responses that addresses the concern below is whether three was abestos in our product, never has been and never will. Correct? 4 A That's correct. 5 Q How about McRedgen it says about the mines we list is substantially selected and constantly tested to ensure the purity of the raw material, correct. 4 That's correct. 5 Q In other words,	7	Q To Jeffrey Lebaw, L E B A W.	7	A It was an FYI. They were telling me about
10 by that? 11 A Public relations. 12 Q And then there's a Gary Noble? 13 A Yes. 14 Q And who is he? 15 A I believe he was R and D, research. 16 Q The below that are some other people who are identified and we will get them while we are sitting here. Veronica Rubio, who way she? 19 A I don't know. 20 Q How about Ray Gregiore? 21 A I don't know him. 22 Q How about Michael Chudkowski, 23 CHUD KOWS K!? 24 A A research and development person. 25 Q And all of these emails have a parenthesis 26 U HUD KOWS K!? 27 A That's what it says, yes. 28 A That's correct. 29 Q And all of these emails have a parenthesis 30 Chyoracte. Us. Think it is Johnson and Johnson 4 company. I don't know what all the letters are for. 31 Think it is Johnson and Johnson 4 Company. I don't know what all the letters are for. 32 A That's what it says, yes. 33 A I the specific Johnson and Johnson 4 Company. I don't know what all the letters are for. 34 Corporate, U.S. That's the designation of which Johnson and Johnson division. 35 Q For example, for John McKegan it says 36 JUCUS, that's corporate? 37 A Consumer Products Company. 38 Q For cxample, for John McKegan it says 39 JUCUS, that's corporate? 40 A Consumer Products Company. 41 Q And the mail starts on the bottom at that time from Mr. Gregiore saying, "Vernonica, Long's product, long's	8		8	it, I guess.
11 A Public relations. 12 Q And then there's a Gary Noble? 13 A Yes. 14 Q And who is he? 15 A I Delieve he was R and D, research. 16 Q The below that are some other people who 17 are identified and we will get them while we are 18 sitting here. Vernorica Rubio, who way she? 19 A I don't know. 20 Q How about Ray Gregiore? 21 A I don't know him. 22 Q How about Michael Chudkowski, 23 CHUDKOW SK I? 24 A A research and development person. 25 Q And all of these emails have a parenthesis 26 Unit by Kow Sk I? 27 A I the specific Johnson and Johnson 28 A I the specific Johnson and Johnson 29 G For example, for John McKeegan it says 29 JUCUS, that's the designation of which 20 And the email starts on the bottom at that 21 time from Mr. Gregiore saying, "Vernonica, Long's 29 Titale to asbestos as reported in local Bay Area 29 Titale to asbestos as reported in local Bay Area 20 Titale to asbestos as reported in local Bay Area 21 Titale to asbestos as reported in local Bay Area 22 With the media and consumers, but even distributors 23 of the Johnson Baby Powder, profrect? 24 A That's what it says, ves. 25 Q And the concern below." Correct? 26 A Not having written, I can only assume that swh the was referring to. 27 A Not having written, I can only assume that swh the was referring to. 28 A research and development person. 29 And all of these emails have a parenthesis 29 The specific Johnson and Johnson 30 Corporate, U.S. That's the designation of which 31 Corporate, U.S. That's the designation of which 42 Go For example, for John McKeegan it says 43 A Consumer Products Company. 44 Q And the email starts on the bottom at that 45 time from Mr. Gregiore saying, "Vernonica, Long's 46 Drug would like information on Johnson's Baby Powder 47 specifically as it applies to any relationship of table to asbestos as reported in local Bay Area 48 Q So you are involved not only in dealing 49 with the media and consumers, but even distributors 40 Q So you are involved not only in dealing 40 G Dy Oconnore in the work of the mail subsetsos.	9	Q When you any corporate, what do you mean	9	Q The email back involved people who worked
12 Q And then there's a Gary Noble? 13 A Yes. 14 Q And who is he? 15 A I believe he was R and D, research. 16 Q The below that are some other people who 17 are identified and we will get them while we are 18 sitting here. Veronica Rubio, who way she? 19 A I don't know. 20 Q How about Ray Gregiore? 21 A I don't know him. 22 Q How about Michael Chudkowski, 22 Q How about Michael Chudkowski, 23 C H U D K O W S K I? 24 A A research and development person. 25 Q And all of these emails have a parenthesis 26 A That's correct. 27 A That's correct. 28 A I think it is Johnson and Johnson 29 And the response back is that the answer 29 Q How about Michael Chudkowski, 20 And the response back is that the answer 20 Q How about Michael Chudkowski, 21 A A research and development person. 22 Q And all of these emails have a parenthesis 25 Q Then again it is talks about the mines we 26 Page 54 27 Lithink it is Johnson and Johnson 28 COpporate, U.S. That's the designation of which Johnson division. 29 JJCUIS, that's corporate? 30 A Correct? 31 A Correct? 32 A Consumer Products Company. 33 A Consumer Products Company. 44 Copporate, provincing that we had a standard corporate response that addressess the concern below." Correct? 45 A That's correct. 46 D And the concern below is whether there was asbestos in Johnson's Baby Powder, orrect? 47 A That's what it says, yes. 40 And the concern below is whether there was asbestos in Johnson's Baby Powder, orrect? 41 A That's what it says, provincing that we had a standard corporate? 42 A That's what it says, province, or correct? 43 A That's what it says, provincing that where was absets in Johnson's Baby Powder was a parenthesis and the provincing that we had a standard corporate? 4 A That's what it says, provincing that we had a standard corporate response that the answer that's what it says, province, received the attended email. 4 A That's or a that the answer was a sheet to ensure the purity of the raw material, correct? 4 A That's correct. 9 In other words, no asbestos in mine eith	10		10	in your part of the company, correct? CPCUS.
13 A Yes. 14 Q And who is he? 15 A I believe he was R and D, research. 16 Q The below that are some other people who 17 are identified and we will get them while we are 18 sitting here. Vernoirae Rubio, who way she? 19 A I don't know. 20 Q How about Ray Gregiore? 21 A I don't know him. 22 Q How about Michael Chudkowski, 23 CH U D K O W S K I? 24 A A research and development person. 25 Q And all of these emails have a parenthesis 26 Q And all of these emails have a parenthesis 27 A I the specific Johnson and Johnson 28 Company. I don't know what all the letters are for. 29 I Think it is Johnson and Johnson 20 Corporate, U.S. That's the designation of which 21 Johnson and Johnson division. 22 A Correct. 23 A Correct. 24 A That's correct. 25 Johnson and Johnson and Johnson and Johnson and Johnson and Johnson and Johnson division. 26 Corporate, U.S. That's the designation of which 27 Johnson and J	11	A Public relations.	11	A They worked in Consumer Products, yes.
14	12	Q And then there's a Gary Noble?	12	Q Is says, "I'm now working on Johnson's
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4 company. I don't know what all the letters are for. 5 I think it is Johnson and Johnson 6 Corporate, U.S. That's the designation of which 7 Johnson and Johnson division. 8 Q For example, for John McKeegan it says 9 JJCUS, that's corporate? 10 A Correct. 11 Q And then for yourself it says CPCUS. What 12 does that stand for? 13 A Consumer Products Company. 14 Q And the email starts on the bottom at that 15 time from Mr. Gregiore saying, "Vernonica, Long's 16 Drug would like information on Johnson's Baby Powder 17 specifically as it applies to any relationship of 18 talc to asbestos as reported in local Bay Area 19 media," Correct? 20 A That's what it says, yes. 21 Q So you are involved not only in dealing 22 with the media and consumers, but even distributors 24 MS. O'CONNOR: Objection to the form. 25 I think it is Johnson and Johnson and Johnson and Johnson and Johnson and by Powder product, correct. 26 A We did not discuss the mines. The important thing was that the cosmetic talc used was free of asbestos.	3	A It the specific Johnson and Johnson	3	÷ ,
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9 JJCUS, that's corporate? 10 A Correct. 11 Q And then for yourself it says CPCUS. What 12 does that stand for? 13 A Consumer Products Company. 14 Q And the email starts on the bottom at that 15 time from Mr. Gregiore saying, "Vernonica, Long's 16 Drug would like information on Johnson's Baby Powder 17 specifically as it applies to any relationship of 18 talc to asbestos as reported in local Bay Area 19 media," Correct? 10 from? 11 MS. O'CONNOR: Objection to the form. 12 MS. O'CONNOR: Objection to the form. 13 MS. O'CONNOR: You can answer. 14 A No. What it says here that the mine we 15 used are carefully collected and then we test to 16 insure the raw material is pure and did not contain 17 specifically as it applies to any relationship of 18 talc to asbestos as reported in local Bay Area 18 Q What was told to you by people inside of 19 media," Correct? 19 Johnson and Johnson? Did they tell you that none of 20 A That's what it says, yes. 20 the mines they used contained asbestos or that it 21 Q So you are involved not only in dealing 22 with the media and consumers, but even distributors 23 of the Johnson Baby Powder product, correct. 24 MS. O'CONNOR: Objection to the form. 26 MS. O'CONNOR: Objection to the form.	7	Johnson and Johnson division.	7	A That's not what it says, no.
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25 A I have to read the whole thing, but as you 25 Q But you, at some point in time, actually	11 12 13 14 15 16 17 18 19 20 21 22	does that stand for? A Consumer Products Company. Q And the email starts on the bottom at that time from Mr. Gregiore saying, "Vernonica, Long's Drug would like information on Johnson's Baby Powder specifically as it applies to any relationship of talc to asbestos as reported in local Bay Area media," Correct? A That's what it says, yes. Q So you are involved not only in dealing with the media and consumers, but even distributors of the Johnson Baby Powder product, correct.	12 13 14 15 16 17 18 19 20 21 22 23	MR. GOLDSTEIN: Join. MS. O'CONNOR: You can answer. A No. What it says here that the mine we used are carefully collected and then we test to insure the raw material is pure and did not contain asbestos. Q What was told to you by people inside of Johnson and Johnson? Did they tell you that none of the mines they used contained asbestos or that it did contain asbestos? A We did not discuss the mines. The important thing was that the cosmetic talc used was
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1	related that the mine did not contain asbestos,	1	My pad says the question, "Did the
2	correct?	2	tale that was used in any J and J Baby Powder
3	A The talc was tested to ensure that it did	3	product ever contain any amount of asbestos," and I
4	not contain asbestos.	4	think I want to see if this characterizes your
5	Q So you never made a representation	5	testimony correctly. There is no evidence that
6	anywhere that the maintenance from which the talc	6	Johnson's Baby Powder contained any amount of
7	came did not contain asbestos?	7	asbestos and there never was?
8	MS. O'CONNOR: Objection.	8	A That's correct.
9	Mischaracterizes the testimony. You can answer.	9	Q And that's what you were telling people?
10	A I can't speak to the mine. It is the	10	A Yes, that's correct.
11	finished product, the talc used in our product.	11	Q I want to talk a little bit about I
12	Q By the way, this is not an endurance test,	12	guess I should add, or will be. Is what the
13	so any time you need to take a break.	13	document said, never was and never will be?
14	MS. O'CONNOR: We can take a break.	14	A There never will be.
15	MR. PLACITELLA: Let me finish this	15	Q Now I want to talk about the basis for
16	one document.	16	that statement. Is your understanding that tests
17	Q This document is an email dated 6-1-2000.	17	were actually done to verify that statement?
18	The subject is talc and asbestos. You are one of	18	A That's correct.
19	the recipients on this email, correct?	19	Q And who did those tests?
20	A Yes.	20	A They would have been performed at the
21	Q And it is from John McKeegan in Corporate,	21	manufacturing sites. I don't know specifically who
22	correct?	22	did them, no.
23	A Correct.	23	Q You never actually saw the tests yourself,
24	Q One of the people he sent it to is Owen	24	correct?
25	Rankin. Do you know who Owen Rankin was?	25	A Correct.
	Page 58		Page 60
1	A Yes. Owen Rankin was the President of	1	Q You relied upon the people that you went
2	Baby Products.	2	to to tell you the entire truth, and nothing but the
3	Q It states, "Just to let you know, I still	3	entire truth, correct?
4	haven't heard back from the Seattle Post	4	A Yes. I know these people didn't lie.
5	Intelligencer."	5	They were scientists. They were valid.
6	Do you recall an exchange with the	6	Q When you say they were done at
7	Seattle Post Intelligencer about Johnson's Baby	7	manufacturing, what manufacturing facilities are you
8	Powder and talc and asbestos?	8	talking about?
9	A No, I do not.	9	A I don't know, because that was not my
10	Q And here, and I highlighted it, McKeegan	10	role. I didn't deal with this specifically. I
11	says to you and the president of your company, that	11	don't know.
12	he kept impressing upon the reporter that there's no	12	Q Do you know whether the testing was ever
13	asbestos in our product and never has been, correct?	13	done if the mines itself?
14	A That's what it says here, yes.	14	A I don't know.
15	MR. PLACITELLA: This is a good time	15	Q Do you know whether they ever outsourced
16	to take a break.	16	the testing?
17	THE VIDEOGRAPHER: The time is now	17	A I don't know.
18	11:19 a.m. and we are going off the record.	18	Q Who specifically did you rely upon for
19	(Recess taken)	19	making the statement that there's no evidence that
20		20	Johnson's Baby Powder contained any amount of
21	THE VIDEOGRAPHER: The time is now	21	asbestos, and there never was and there never will
22	11:34 a m. We are back on the record.	22	be? Who specifically did you rely upon?
23	BY MR. PLACITELLA:	23	A That would have been one of my team
24	Q So, I have my pad again. By the way, it	24	members in quality assurance.
25	says Drinker, Biddle, so I don't discriminate.	25	Q It would be important to have a name. Who
		I	

	Page 61		Page 63
1	do you recall?	1	A I'm not an asbestos expert, so I can't say
2	A Sam Jiwrajka and Don Hicks are the too	2	one way or the other.
3	names.	3	Q You are a nurse, you have some health care
4	Q Sam, can you give me the spelling of his	4	background, correct?
5	last name? That's a tough one?	5	A I'm a nurse and I have health care
6	A I'll try. JIWRAJKA, I think.	6	background, but not in asbestos.
7	Q What was his job?	7	Q Did you understand it was the position
8	A He was and the head of quality assurance.	8	internally at Johnson and Johnson that there's no
9	Q And Don Hicks, his job was what?	9	safe level of asbestos exposure?
10	A Director of Quality Assurance.	10	MS. O'CONNOR: Objection to the form
11	Q Now, so we are clear, you never read any	11	of the question.
12	testing reports, summary reports or anything before	12	Q Did you know that?
13	making these statements to patients I'm sorry,	13	MS. O'CONNOR: Objection.
14	consumers or the media, correct?	14	A Again, I'm not an expert on asbestos,
15	A That is correct.	15	so I can't talk about that specifically, no.
16	Q Is it your understanding then that Johnson	16	Q So you didn't know internally at Johnson
17	and Johnson never received any reports indicating	17	and Johnson that the official position was that
18	there was asbestos in Johnson's Baby Powder?	18	there is no safe level of asbestos exposure?
19	A That is correct. There's no asbestos in	19	MS. O'CONNOR: Objection. Asked and
20	Johnson's Baby Powder.	20	answered. You can answer it again.
21	Q When you had these conversations, for	21	A What I do know, did and do know is that
22	example, with the mothers and the consumers, your	22	the pure cosmetic talc used in Johnson's Baby Powder
23	intent was to convey to them there was zero chance	23	is free from asbestos.
24	of exposing their families to asbestos at any level	24	Q Do you know in your experience in working
25	using Johnson's Baby Powder, correct?	25	at Johnson and Johnson, and as a nurse, that the
	Page 62		Page 64
1	· ·		5
	A My job was to reassure them they could	1 1	only known cause of mesothelioma is ashestos
1 2	A My job was to reassure them they could feel safe and comfortable using Johnson's Baby	1 2	only known cause of mesothelioma is asbestos
2	feel safe and comfortable using Johnson"s Baby	2	exposure?
2	feel safe and comfortable using Johnson's Baby Powder because it does not contain asbestos.	2 3	exposure? MS. O'CONNOR: Can I hear the
2 3 4	feel safe and comfortable using Johnson's Baby Powder because it does not contain asbestos. Q So there was zero chance of exposing their	2 3 4	exposure? MS. O'CONNOR: Can I hear the question back.
2	feel safe and comfortable using Johnson's Baby Powder because it does not contain asbestos. Q So there was zero chance of exposing their families to asbestos by using Johnson's Baby Powder.	2 3 4 5	exposure? MS. O'CONNOR: Can I hear the question back. (The above question is read)
2 3 4 5	feel safe and comfortable using Johnson's Baby Powder because it does not contain asbestos. Q So there was zero chance of exposing their families to asbestos by using Johnson's Baby Powder. That was your in intent to convey to them, correct?	2 3 4	exposure? MS. O'CONNOR: Can I hear the question back. (The above question is read) MS. O'CONNOR: Objection to the form
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	Page 65		Page 67
1	Q Did you know that asbestos exposure was	1	asbestos in Johnson's Baby Powder. I don't know the
2	linked to lung cancer?	2	right way to answer that because there isn't
3	A There have been theories, allegations,	3	asbestos in the baby powder.
4	yes.	4	Q What I want you to assume for the moment
5	Q And you knew, for example, that asbestos	5	that there is evidence of asbestos in Johnson's Baby
6	exposure could cause ovarian cancer, correct?	6	Powder. Would you agree, if there was evidence of
7	MS. O'CONNOR: Objection to the form	7	asbestos in Johnson's Baby Powder, you would be
8	of the question. You can answer it.	8	potentially exposing millions of people, including,
9	A It was the same thing. We don't know what	9	babes, to asbestos. Yes or no?
10	causes cancer.	10	MS. O'CONNOR: Same objection. Calls
11	Q You know that asbestos exposure in the	11	for speculation. Vague, ambiguous, asked and
12	medical literature was lined to ovarian cancer,	12	answered. You can answer again.
13	correct?	13	A I don't want to assume.
14	MS. O'CONNOR: Same objection. Asked	14	Q Ma'am, can an honest and forthright
15	and answered. You can answer again.	15	witness provide a simple answer to a simple
16	A No, I don't know that.	16	question?
17	Q You never discussed the relationship	17	MS. O'CONNOR: Objection,
18	between ovarian cancer and asbestos exposure in your	18	argumentative.
19	job at Johnson and Johnson?	19	Q Ma'am?
20	A No, I didn't.	20	MS. O'CONNOR: Please don't do that
21	Q Does smoking cause lung cancer?	21	Mr. Placitella. Do you have a question?
22	A It is thought to, yes.	22	Q Can you answer my question? Do you
23	Q Does asbestos cause lung cancer?	23	believe an honest and forthright witness can provide
24	A I don't know.	24	a simple answer to a simple question?
25	Q So in making statements about the safety	25	MR. GOLDSTEIN: Objection.
	Page 66		Page 68
1	of the Johnson's Baby Powder, you did not know what	1	
1 2	of the Johnson's Baby Powder, you did not know what diseases were associated with exposure to talc that	1 2	MS. O'CONNOR: Objection.
	of the Johnson's Baby Powder, you did not know what diseases were associated with exposure to talc that contained asbestos. Is that fair?		MS. O'CONNOR: Objection. A Yes, to a simple question.
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	Page 69		Page 71
1	room if that is required. So please follow the	1	MR. PLACITELLA: We will her see the
2	rules.	2	whole video and let her decide.
3	Can you read my question back.	3	Q Am I correct that and I apologize if
4	(The above question is read)	4	you think the tone is offensive. I'll try to dial
5	MS. O'CONNOR: Same objection.	5	it down slightly, okay?
6	,	6	Am I correct you don't know whether
7	A It is an assumption, yes. There would	7	the testing methods used by Johnson and Johnson were
8	be depends on how much asbestos you found	8	capable of providing the same guarantees you were
9	Circumstances. But we are talking about pure grade	9	giving mothers that there was zero chance of
10	cosmetic talc, there's no asbestos in the product.	10	asbestos being in Johnson Baby Powder?
11	Q We are going to get to that. Do you agree	11	MS. O'CONNOR: Objection to the form
12	with me that no child should needlessly be exposed	12	of the question. You can answer.
13	to asbestos?	13	A As I said, I'm not an expert in the
14	A Yes.	14	testing, so I can't speak to the testing.
15	Q Do you agree with me that no adult should	15	Q So the answer would be you don't know?
16	needlessly be exposed to asbestos?	16	A I don't know. That's not my role.
17	A Yes.	17	Q Do you agree with me that Johnson and
18	Q Do you agree with me that when you were at	18	Johnson should have used the most sensitive test
19	Johnson and Johnson it was your understanding that	19	possible that would work in determining whether
20	safety questions about products must be answered	20	there was asbestos in the Johnson's Baby Powder?
21	fully and honestly?	21	MS. O'CONNOR: Objection to the form
22	A Yes, absolutely.	22	of the question. Vague and ambiguous.
23	Q Do you agree with me that if there was	23	Q Let me ask the question this way. Do you
24	asbestos in Johnson's Baby Powder, Johnson and	24	agree with me that Johnson and Johnson had a
25	Johnson had a duty to find it?	25	responsibility to do everything possible to make
	Page 70		Page 72
1	A Well, Johnson and Johnson did test to see	1	sure there was no asbestos in the talc that was used
2	if there was asbestos in the product.	2	in their products?
3	Q Here is my question. Do you agree with me	3	MS. O'CONNOR: Objection to the form.
4	if there is asbestos in the Johnson's Baby Powder,	4	Vague and ambiguous.
5	Johnson and Johnson had a duty to find it?	5	A Yes, and I believe that Johnson and
6	MS. O'CONNOR: Objection to the form	6	Johnson did everything possible.
7	of the question.	7	Q Okay. And you agree with me that the
8	A They fulfilled that duty by testing for	8	question of whether there was asbestos or not in
9	asbestos.	9	products that Johnson and Johnson was selling is a
10	Q You don't know anything about the testing	10	matter of life and death?
11	methods that were used, correct?	11	A Can you rephrase that question?
1 0	A No. That was not my role.	12	Q Yes. Do you agree with me the question of
12	•		
13	Q Am I correct you don't know anything about	13	whether there was asbestos in the Johnson and
	Q Am I correct you don't know anything about whether the testing methods used by Johnson and	14	whether there was asbestos in the Johnson and Johnson talc product is a matter of life and death?
13	Q Am I correct you don't know anything about whether the testing methods used by Johnson and Johnson were capable of providing the same	14 15	whether there was asbestos in the Johnson and Johnson talc product is a matter of life and death? Sub.
13 14 15 16	Q Am I correct you don't know anything about whether the testing methods used by Johnson and Johnson were capable of providing the same guarantees you were giving mothers that there was	14 15 16	whether there was asbestos in the Johnson and Johnson talc product is a matter of life and death? Sub. MR. GOLDSTEIN: Objection to the
13 14 15 16 17	Q Am I correct you don't know anything about whether the testing methods used by Johnson and Johnson were capable of providing the same guarantees you were giving mothers that there was zero chance of asbestos being in Johnson's Baby	14 15 16 17	whether there was asbestos in the Johnson and Johnson talc product is a matter of life and death? Sub. MR. GOLDSTEIN: Objection to the form.
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13 14 15 16 17 18 19 20 21 22 23	Q Am I correct you don't know anything about whether the testing methods used by Johnson and Johnson were capable of providing the same guarantees you were giving mothers that there was zero chance of asbestos being in Johnson's Baby Powder? MS. O'CONNOR: Objection to the form. I would object to Mr. Placitella's tone. You are really starting to cross the line here. MR. PLACITELLA: Stop it. We will show the judge the video and	14 15 16 17 18 19 20 21 22 23	whether there was asbestos in the Johnson and Johnson talc product is a matter of life and death? Sub. MR. GOLDSTEIN: Objection to the form. MS. O'CONNOR: Same objection. A Again, there's no asbestos in the products. It is hard for me to answer that. Q Now, do you have a recollection of working on a case called Krushinski? A No.

Powder? A I don't recall that, no. Q Do you recall swearing under oath that there was no sabsatos in any of the mines where the haby powder came from? A I don't recall that, no. Q Do you recall swearing under oath that there was no rabeatos in any of the mines where the haby powder came from? A I don't recall that, no. A I don't was that we question is? A What was the question? A I don't with our legal department and reviewed the verify that the information contained in these certification under power than the information in the valid sources. A Yes. A Yes, it's. A Y		Page 73		Page 75
dere was no absestos in any of the mines where the baby powder came from? A I don't recall that, no. Do you recall swearing under oath that there was no absestos in any of the mines where the baby powder came from? Do you for reall swearing under oath that there was no Tremolite in any of the mines where the baby powder came from? A I don't recall that. Do you know that Tremolite is? A A mineral. A A mineral. A Mas O'CONNOR: Objection to the form. Mas O'CONNOR: Objection to the form. A No, I don't know that. Do you know that. A No, I don't know that. Do you know that. A No, I don't know that. Do you know that. A No, I don't know that. Do you know that. Do you know that. A No, I don't know that. Do you collected the various documents and that the information from the valid sources.	1	Powder?	1	A Yes.
there was no abeatos in any of the mines where the baby powder came from? A I don't recall that, no. O Do you recall swarning under oath that the was no Tremolite is any of the mines where the baby powder came from? A L don't recall that, no. O Do you know what Tremolite is? A A mineral. A A mineral. O Do you know what Tremolite is? A A mineral. You can answer. A No, I don't know that. O Q Day in which you do to our legal department and reviewed it with our legal department, yes. O So, can you tell me what did you do to our legal department and reviewed it with our legal department and reviewed it with our legal department, yes. O So, can you tell me what did you do to to write you are looking at it, is a set of interrogatory answers was true and accurate, as you see that? A Yes. O And if you flip to the last page, the last Page 74 Page is a certification dated May 23, 2000, correet? A Yes, O And you signed the certification under penalty of perjury, correet? A Yes, O What you state is that you are employed by Johnson and Johnson Consumer Companies, correct? A Yes, O What you state is that you are employed by Johnson and Johnson Consumer Companies, correct? MR PLACTIFILA: Let me read it and the penalty of perjury, correct? MR PLACTIFILA: Let me read it and the penalty of perjury, correct? MR PLACTIFILA: Let me read it and the proper person to accumulate the information. It would be compiled, put together. O What you state is that you are employed by Johnson and Johnson consumer Companies, correct? MR PLACTIFILA: Let me read it and the penalty of perjury, correct? MR PLACTIFILA: Let me read it and the perpared with the assistance and advice of counsel for IJCCI upon whose advice and information and belief. If any of the foregoing statements made by me are willfully false, passession and look at documents before you signed this? A Correct the best of my knowledge, information and belief. If any of the foregoing statements made by me are willfully false, passession and look at documen	2	A I don't recall that, no.	2	Q Now, before think signing this, did you
baby powder came from? A I don't recall that, no. O Do you know it is a form of asbestos? A No, I don't know what Tremolite is? A No, I don't know that is any of the mines where the baby powder came from? A A A mineral. O Do you know with is a form of asbestos? A No, I don't know that Tremolite is? A No, I don't know that I remolite is? O Do you know it is a form of asbestos? A No, I don't know that. You can answer. A No, I don't know that. The Law Division of Middless County is a case called Krushinski versus Johnson and Johnson in the Law Division of Middless County is a case called Krushinski versus Johnson and Johnson not you see that? A Yes. D And if you flip to the last page, the last Page 74 Page is a certification dated May 23, 2000, correct? A Yes. A Yes. A Yes. A Yes, it is. Q And you signed the certification under penalty of perjury, correct? A Yes, it is. Q And you signed the certification under penalty of perjury, correct? A Yes, it is. Q What you state is that you are employed hy Johnson and Johnson Consumer Companies, correct? A Yes, it is. Q What you state is that you are employed hy Johnson and Johnson Consumer Companies, correct? A Yes, it is. Q What you state is that you are employed hy Johnson and Johnson Consumer Companies, correct? A Correct. MR. PLACUTELIA: Let me read it and I I'll trying to shortcut it. MR. PLACUTELIA: Let me read it and I'll trying to shortcut it. MR. PLACUTELIA: Let me read it and I'll trying to shortcut it. Q The topoging answers are true and correct to the best of my knowledge, information and belief. If any of the foregoing answers are true and correct to the best of my knowledge, information and belief. If any of the foregoing answers are true and correct to the best of my knowledge, information and belief. If any of the foregoing answers are true and correct to the best of my knowledge, information and belief. If any of the foregoing statements made by me are a might yell as the proper of the certification of the foregoing answe	3	Q Do you recall swearing under oath that	3	review these Answers to Interrogatories?
6	4	there was no asbestos in any of the mines where the	4	A I have to look and see what it is.
there was no Tremolite in any of the mines where the baby powder eams from? A I don't recall that. D Do you know what Tremolite is? A A Mint was the question? Q Did you review these answers before signing the certification? A I mineral. D Do you know it is a form of asbestos? A No, I don't know that. S OD by ou know it is a form of asbestos? A No, I don't know that. MS O'CONNOR: Objection to the form. The marked 277 and ask you to take a look at this. 277, while you are looking at it, is a set of lact work in the above in the form. You can answer. A Yes. MS O'CONNOR: Objection to the form. Page 74 Page is a certification dated May 23, 2000, correct? A Yes. A Yes. A Yes. A Yes. A Yes, its. A Yes,	5	baby powder came from?	5	Q Please take a minute.
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babby powder came from? A Idon't recall that. D O you know what Tremolite is? A A mincral. Q Do you know that Tremolite is? A A mincral. D O you know it is a form of asbestos? MS. O'CONNOR: Objection to the form. MS. O'CONNOR: Objection to the form. MS. O'CONNOR: Objection to the form. A No, I don't know that. O Okay. I'm going to show you what's been marked 277 and ask you to take a look at this. 277, while you are looking at it, is a set of later Division of Middlesex County in a case called Krushinski versus Johnson and Johnson in the Law Division of Middlesex County in a case called Krushinski versus Johnson and Johnson. Do you see that? A Yes. Q And if you flip to the last page, the last Page 74 Page 74 Page 74 Page 74 Page 8 Q And wor signature? A Yes. Q And you signed the certification under penalty of perjury, correct? A Yes. Q What you state is that you are employed by Johnson and Johnson Consumer Companies, correct? A Yes. Q What you state is that you are employed by Johnson and Johnson Consumer Companies, correct? A Yes. Q My by ou state is that you are employed by Johnson and Johnson Consumer Companies, correct? A Yes. Q My how were the people that you relied upon to answer these and then they would be compiled, put together. Q And who were the people that you relied upon to answer these questions, to help you answer these questions, to help you answer these questions? A Talt is what it says. Q The foregoing answers to Interrogatories were prepared, correct? A That is what it says. Q The foregoing answers are true and correct to the best of my knowledge, information and belief. If any of the foregoing assternates and belief. If any of the foregoing statements made by me are willfully false, I may be subject to A So, GOONNOR: Objection to the verification to our legal department and reviewed it with our legal department and evicent in these Interrogatory and the provided this information to our legal department and evitence file. A That in the information from the valid epartment	7	Q Do you recall swearing under oath that	7	Q And the answer to my question is?
10 A I don't recall that. 11 Q Do you know what Tremolite is? 12 A A mineral. 13 Q Do you know it is a form of asbestos? 14 MS. O'CONNOR: Objection to the form. 15 You can answer. 16 A No, I don't know that. 17 Q O day. I'm going to show you what's been 18 marked 277 and ask you to take a look at this. 277, 19 while you are looking at it, is a set of 19 Interrogatories unbimited by Johnson and Johnson in the Law Division of Middlesex County in a case called Krushinski versus Johnson and Johnson. Do you see that? 22 a keep that? 23 see that? 24 A Yes. 25 Q And if you flip to the last page, the last 2 Page 74 1 page is a certification dated May 23, 2000, correct? 2 A Yes. 3 Q And that's your signature? 4 A Yes. 3 Q And that's your signature? 4 A Yes. 5 Q And you signed the certification under 6 penalty of perjury, correct? 5 Q And you signed the certification under 6 penalty of perjury, correct? 10 A Correct. 11 Q That you looked at the interrogatories where prepared, correct? 11 Q That you looked at the interrogatories where prepared, correct? 12 A Sen. 13 A I would have provided this information to our legal department and reviewed it with our legal department, yes. 4 Q No, can you tell me what did you do to verify that the information contained in these Interrogatory answers was true and accurate, as you certificat! MS. O'C'ONNOR: Objection to the form. 20 And win versus Johnson and Johnson in the Law Division of Middlesex County in a case called Krushinski versus Johnson and Johnson and Johnson in the Law Division of Middlesex County in a case called Krushinski versus Johnson and Johnson Consumer? 21 Q That you looked at the interrogatory answers was true and conversation with our legal department and then it would be compiled, put together. 22 A Sen. 23 MS. O'C'ONNOR: Plogical department and then it would be compiled, put together. 24 A Yes. 25 Q And you state is that you are employed by Johnson and Johnson Consumer Companies, correct? 26 Q That foregoing Answers to Interrogatories were prepared with the a	8		8	<u> </u>
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4 A Yes, it is. 5 Q And you signed the certification under 6 penalty of perjury, correct? 7 A Yes. 8 Q What you state is that you are employed by 9 Johnson and Johnson Consumer Companies, correct? 10 A Correct. 11 Q That you looked at the interrogatory 12 answers that were prepared, correct? 13 MS. O'CONNOR: I'm going to object. 14 MR. PLACITELLA: Let me read it and 15 I'll trying to shortcut it. 16 Q "The foregoing Answers to Interrogatories 17 Were prepared with the assistance and advice of 18 counsel for JJCCI upon whose advice and information 19 JJCCI and I relied." Correct? 20 A That is what it says. 21 Q "The foregoing answers are true and 22 correct to the best of my knowledge, information and 23 belief. If any of the foregoing statements made by 24 me are willfully false, I may be subject to 4 the appropriate people to answer these and then they would, or maybe the three of us, would have a conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversation with our legal department and then it would be conversed to a conversation with our legal department and then it would be conversed to subject to a part of the sequestions? Q And who were the people that you relied upon to answer these questions, to help you relied upon to answer these questions, to help you relied upon to answer these questions, to help you relied upon to answer these questions, to help you relied upon to answer these questions, to help you relied upon to answer these questions, to help you relie	2	A Yes.	2	A I don't remember exactly. This is 17
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22 correct to the best of my knowledge, information and 23 belief. If any of the foregoing statements made by 24 me are willfully false, I may be subject to 25 A No. That wouldn't have been my role to do 26 that, no. 27 Q So if you didn't physically look at the				·
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me are willfully false, I may be subject to 24 Q So if you didn't physically look at the		•		· · · · · · · · · · · · · · · · · · ·
				·
punishment." Do you see that? 25 documents that were being relied upon, how would you	4.5	punishment. Do you see that?	25	documents that were being relied upon, how would you

	Page 77		Page 79
1	know they were true, the answers were true?	1	A Yes.
2	MS. O'CONNOR: Objection to the form.	2	Q In 17 you state, "To the best of
3	A This was done with our attorneys, so the	3	defendant's knowledge, talc used in the manufacture
4	whole process done through the advice of the	4	of Johnson and Johnson Baby Powder never
5	attorney, too.	5	contained asbestos in any form or Tremolite.
6	Q But with all due respect, it says this is	6	Defendant's sources of talc were selected for
7	true and accurate to the best of my knowledge, and	7	their lack of contaminants and further
8	my question is what specifically did you do to	8	testing was performed over a significant number of
9	assure yourself that it was true and accurate? You	9	years by outside laboratories, which verified that
10	never looked at a single document	10	defendant's talc sources did not contain asbestos or
11	A No.	11	Tremolite."
12	MS. O'CONNOR: Objection to the form	12	Do you see that?
13	of the question. You can answer.	13	A Yes, I do.
14	A I was relying on the experts.	14	Q What is the basis of that statement?
15	Q The experts that you relied upon, you	15	MS. O'CONNOR: Objection to the form
16	don't remember who they were?	16	of the question. You can answers.
17	A No. Seventeen years ago.	17	A Again, this would be information that was
18	Q I'm just asking a question.	18	obtained from the appropriate department.
19	A No.	19	Q Who gave you that information?
20	Q It says you also relied upon your lawyers.	20	A It would have been either manufacturing or
21	What lawyers?	21	quality assurance.
22	A It would have been, I think at this time,	22	Q But you don't remember?
23	John O'Shaughnessy, but I'm not sure of the time frame	23	A No. Seventeen years ago, no.
24	because I don't remember this.	24	Q It talks about studies and testing done by
25	Q Had you executed certifications similar to	25	outside laboratories indicating that the sources did
	Page 78		Page 80
1	this in other cases?	1	not contain asbestos or Tremolite. Do you see that?
2	A Not that I remember.	2	A Yes.
3	Q I want to go to a couple. I'm not going	3	Q Have you ever seen any of that testing
4	to go through all these questions, but I want to go	4	information?
5	through a few of them.	5	A No.
6	If you could look on page 5. By the	6	Q Down below it says, number 18, "Over a
7	way, do you remember what this case was about?	7	number of years, defendant had an ongoing process of
8	A No.	8	testing its source talc for Johnson and Johnson's
9	Q Do you know what the injury was that was	9	Baby Powder for asbestos, Tremolite or other
10	being claimed?	10	contaminants" Do you see that?
11	A Other than what is here, I have no memory	11	A Yes.
12	of it.	12	Q When you say source talc, you mean the
13	Q What is here?	13	mines, correct?
14	A Something about talcosis.	14	MS. O'CONNOR: Objection to the form
15	Q In 11 you respond referencing medical	15	of the question. You can answer.
16	literature concerning talc and talc companies. Do	16	A To me that means the talc used in
17	you see that?	17	Johnson's Baby Powder.
18	A I see number 11.	18	Q It came from the mines.
19	Q Page 5, you also say that you provided	19	MS. O'CONNOR: Same objection.
20	studies to the plaintiffs. Where did you get those	20	A Originally.
21	studies?	21	Q That's talc sources.
22	MS. O'CONNOR: Objection to the form.	22	A That's the source of the talc. The source
23	A I don't know.	23	talc is the talc that is used in the powder. That
24	Q Can you go to 17 and 18 and I'll blow it	24	is the way I interpret that.
25	up. Are you with me?	25	Q I want to go back to that in a second.

1	Page 81		Page 83
1	It says, "It never had asbestos,	1	contaminants, and further testing was performed over
2	Tremolite or any other contaminant." Correct?	2	a significant number of years by outside
3	A That is correct.	3	laboratories which verified that the defendant's
4	Q And that included heavy metals like	4	talc sources did not contain asbestos or tremolite."
5	arsenic, things like that?	5	It doesn't say baby powder, it says talc sources.
6	A We are talking about other contaminants	6	I'm asking you what did you mean by
7	and specifically asbestos and Tremolite here.	7	talc sources?
8	Q Did you ever have information or were you	8	A Again, that's not my expertise, so I
9	ever provided information indicating that testing	9	didn't choose those words. But the important thing
10	showed that the talc that was used in Johnson's Baby	10	here is that it was tested for years and it did not
11	Powder contained arsenic?	11	contain asbestos.
12	A No.	12	Q I understand, but respectfully, you
13	Q How about nickel?	13	verified these as true and accurate to the best of
14	A No.	14	your knowledge. You must have known what you meant
15	Q How about Cadmium?	15	when you stated it. My question is what did you
16	A No.	16	mean by talc sources?
17	Q How about chromium?	17	MS. O'CONNOR: Objection to the form
18	A No.	18	of the question.
19	Q If that testing existed, is that something	19	A This was information that was given by the
20	you would want to have seen before making the	20	experts in this part of the business, manufacturing
21	representations to consumers and in sworn Answers to	21	and quality assurance.
22	Interrogatories?	22	Q Would the talc source include the mine
23	MS. O'CONNOR: Objection to the form	23	where the tale came from?
24	of the question. You can answer.	24	A I didn't write those words, so I don't
25	A If there were significant amounts, then we	25	know what they meant.
	Page 82		Page 84
1	would address it.	1	Q You have no idea in answering the
2	Q What does that mean, significant amounts?	I	
_	• · · · · · · · · · · · · · · · · · · ·	2	Interrogatories what you meant when you verified
3	A It is, again, one of those things if, if.	3	Interrogatories what you meant when you verified that the talc sources did not have asbestos or
3	A It is, again, one of those things if, if.	3	that the talc sources did not have asbestos or
3 4	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to	3 4	that the talc sources did not have asbestos or tremolite?
3 4 5	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to address.	3 4 5	that the talc sources did not have asbestos or tremolite? MR. GOLDSTEIN: Objection.
3 4 5 6	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to address. Q It says in 18, "The testing was performed	3 4 5 6	that the talc sources did not have asbestos or tremolite? MR. GOLDSTEIN: Objection. MS. O'CONNOR: Objection,
3 4 5 6 7	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to address. Q It says in 18, "The testing was performed by outside laboratories, both McCrone and R.J.	3 4 5 6 7	that the talc sources did not have asbestos or tremolite? MR. GOLDSTEIN: Objection. MS. O'CONNOR: Objection, mischaracterizes the testimony.
3 4 5 6 7 8	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to address. Q It says in 18, "The testing was performed by outside laboratories, both McCrone and R.J. Lee." Do you see that?	3 4 5 6 7 8	that the talc sources did not have asbestos or tremolite? MR. GOLDSTEIN: Objection. MS. O'CONNOR: Objection, mischaracterizes the testimony. A I relied on the experts and this is the
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3 4 5 6 7 8 9	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to address. Q It says in 18, "The testing was performed by outside laboratories, both McCrone and R.J. Lee." Do you see that? A Yes. Q Did you, before signing these, ever see any of the testing results from McCrone and R.J. Lee?	3 4 5 6 7 8 9	that the talc sources did not have asbestos or tremolite? MR. GOLDSTEIN: Objection. MS. O'CONNOR: Objection, mischaracterizes the testimony. A I relied on the experts and this is the information that they provided. Q And you are not able to identify for me
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A It is, again, one of those things if, if. It is an assumption, so it is hard for me to address. Q It says in 18, "The testing was performed by outside laboratories, both McCrone and R.J. Lee." Do you see that? A Yes. Q Did you, before signing these, ever see any of the testing results from McCrone and R.J. Lee? A No. Q You say in answer to number 17, "The testing that was performed verified that the defendant's talc sources did not contain asbestos or Tremolite." What does that mean, talc sources? A It says the Johnson's Baby Powder never contained, and it says the source of talc was selected for the lack of contaminants, but then it was further tested. Q It says, let's read it. "Defendants sources of talc." That is where they got it, right?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that the talc sources did not have asbestos or tremolite? MR. GOLDSTEIN: Objection. MS. O'CONNOR: Objection, mischaracterizes the testimony. A I relied on the experts and this is the information that they provided. Q And you are not able to identify for me what experts? MS. O'CONNOR: Objection to the form. You can answer. A I've given you names I remember. Seventeen years ago. I don't remember them all. Q When these Interrogatories were verified, where were the documents located that backed up these answers? MS. O'CONNOR: Objection to the form of the question. You can answer. A I don't know where they physically were located. Only the departments and the experts I dealt with for the information.

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1	MR. GOLDSTEIN: Objection.	1	Interrogatories, were the files from the Selby and
2	MS. O'CONNOR: Objection to the form.	2	Gambino case made available to you?
3	You can answers.	3	A I don't remember.
4	A That is correct, I didn't.	4	Q When you were workingBy the way, do you
5	Q So if we wanted to find out where the	5	recall working any of these two cases?
6	documents were that served as the basis for these	6	A No.
7	sworn responses, how would we find that out? Who	7	Q When you were working on litigation
8	would we talk to?	8	related to baby powder for Johnson and Johnson, what
9	MS. O'CONNOR: Objection on the form	9	is your recollection of where the files were being
10	of the question.	10	stored that related to that litigation?
11	A I would direct you to manufacturing or	11	A Of anything relating to litigation, would
12	quality assurance, whoever is responsible for that	12	have been stored with the legal department.
13	now.	13	Q Do you understand what a litigation hold
14	Q Can you look at number 19. Number 19 asks	14	is?
15	for prior lawsuits and any testimony, witnesses, et	15	A Yes.
16	cetera, from prior lawsuits involving Johnson's Baby	16	Q What is a litigation hold?
17	Powder, and I'm paraphrasing. You can look at it to	17	A My understanding is that once a litigation
18	make sure I'm doing it correctly.	18	has been declared, or served, any information that
19	A Yes, I see that.	19	any department has concerning that particular case,
20	Q Is that accurate?	20	should not should be given to the law department
21	A What this is asking for if there were any	21	and/or held until further information.
22	claims or allegations of talcosis or pulmonary	22	Q So for example, and you are not allowed to
23	fibrosis through exposure to Johnson's Baby Powder.	23	get rid of that, correct?
24	Q Right. If people testified in those	24	A Correct.
25	cases, give us the testimony. Isn't that what it	25	Q You have to save it in perpetuity. Am I
	Page 86		Page 88
1	asks for?	1	correct?
2	A Yes.	2	MS. O'CONNOR: Objection. Calls for
3	Q You list here two cases that were filed in	3	a legal conclusion. You may answer.
4	Middlesex County, one from 1983 and one from one	4	A Untilyou hear further
5	case in Middlesex county in 1983 and another case in	5	Q Is it your understanding that a litigation
6	California in 1993. Do you see that?	6	hold would have then been put on the Gambino case
7	A Yes.	7	back in 1993?
8	Q Where did that information come from?	8	MS. O'CONNOR: Objection. Calls for
9	A The legal department.	9	speculation. Calls for a legal conclusion. You can
10	Q The legal department had possession of	10	answer.
11	these files at the time you answered these	11	A I don't remember.
12	Interrogatories. Is that your understanding?	12	Q I guess here is my question. How do we
13	MS. O'CONNOR: Objection to the form	13	know that the information that was available to you
14	of the question. You can answer.	14	when you were swearing to these Interrogatories in
15	A I don't remember, but that would have been	15	2000 was the same information that was made
16	the process, yes.	16	available in the Gambino case back in 1983? How do
17	Q So when you listed the Selby case and the	17	we know?
18	Gambino case, that information came directly from	18	MS. O'CONNOR: Objection to the form
	documents that were in the possession of the legal	19	of the question. Vague, ambiguous, calls for
19		20	speculation.
20	department, from your understanding, correct?		A T 1 1/1 T 1/2 T 1/1 1/1
20 21	MS. O'CONNOR: Objection to the form	21	A I don't know. I can't say. I don't know
20 21 22	MS. O'CONNOR: Objection to the form of the question. You can answer.	22	what was given or done. I don't know what the
20 21 22 23	MS. O'CONNOR: Objection to the form of the question. You can answer. A That there would have been the process,	22 23	what was given or done. I don't know what the Gambino case was about.
20 21 22	MS. O'CONNOR: Objection to the form of the question. You can answer.	22	what was given or done. I don't know what the

	Page 89		Page 91
1	A Yes. I don't know.	1	A The talc was tested and it was determined
2	Q Is it your understanding from your	2	that it did not contain any asbestos or Tremolite.
3	understanding of corporate policy, that everything	3	MS. O'CONNOR: Mark that Musco-1.
4	from the Gambino case, for example, would have been	4	(The above document is marked
5	preserved under a litigation hold and available to	5	Musco-1.)
6	you when answering discovery in the crush case?	6	,
7	MS. O'CONNOR: Objection to the form	7	Q Am I correct that you and Johnson and
8	of the question. Vague and ambiguous, calls for a	8	Johnson, when I say you, I mean Johnson and Johnson,
9	legal conclusion.	9	not you personally, knew that the talc used in
10	A If there were a legal hold, I would abide	10	Johnson's Baby Powder could be inhaled by human
11	by the rules of that legal hold.	11	beings?
12	Q I'm not pointing fingers at you. What I'm	12	A Yes. Anything can be inhaled.
13	asking you is, it your understanding that whatever	13	Q You knew that the talc that could be
14	information was available in the Gambino case should	14	inhaled from Johnson's Baby Powder would reach or
15	have been available you to in the Krushinski case?	15	could reach deep into the lung. You knew that,
16	MS. O'CONNOR: Objection. Vague and	16	correct?
17	ambiguous, calls for speculation, calls for a legal	17	MS. O'CONNOR: Objection to the form.
18	conclusion. You may answer.	18	You can answer it.
19	A I really don't know because other than the	19	A Yes.
20	fact they may be the same product, I don't know what	20	Q You knew that the talc, once inhaled, the
21	the case was about, sorry to say.	21	baby powder once inhaled, could travel all the way
22	Q We would have to ask legal to look at the	22	to a woman's ovary, correct?
23	files inside of legal. Is that fair, too?	23	MS. O'CONNOR: Objection to the form
24	MS. O'CONNOR: Objection to the form.	24	of the question. Vague, ambiguous. You can answer
25	Calls for speculation.	25	it.
	Page 90		Page 92
	raue 90		
1	-	1	
1	A They would have the files, yes.	1	A No, I didn't know that.
2	A They would have the files, yes. Q I'm looking at the interrogatories that	2	A No, I didn't know that. A But you knew that there was a serious
2	A They would have the files, yes. Q I'm looking at the interrogatories that you answered, and I want to write down something	2 3	A No, I didn't know that. A But you knew that there was a serious issue, at the very least, concerning whether the
2 3 4	A They would have the files, yes. Q I'm looking at the interrogatories that you answered, and I want to write down something else.	2 3 4	A No, I didn't know that. A But you knew that there was a serious issue, at the very least, concerning whether the talc that was inhaled from Johnson's Baby Powder
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truth or any scientific evidence to these a allegations, and the best way for us to address them. Q And discussed was in a serious way, whether a study should actually be conducted by Johnson and Johnson to prove or disprove whether tale inhaled would reach all the way to a woman's ovary, correct? MS, O'CONNOR: Objection to the form of the question. Vague, ambiguous, compound. You can answer. A I don't remember. I don't know. Q And in fact, you were part of those discussions, weren't you? A I was part of the team that would look at the allegations. Q When it was suggested that a study be done to find out the truth, correct? MS, O'CONNOR: Objection to the form of the question. Vague, ambiguous, compound. You can answer. A As I said earlier, I don't remember the Page 94 1 specific studies that may have been tested—or discussed. But the important thing is we did take it is eriously, and if there was any subtly, activative it is eriously, and if there was any subtly, activative evidence, we would address that. Q And it was seriously discussed and it was rejected because it might actually show results that Johnson and Johnson would not have answers to, correct? MS, O'CONNOR: Objection to the form of the question. Argumentative, vague, antibiguous, a five question. Vague and ambiguous, a five question. Vou can answer. A That's what you are saying. I don't agree with that. Q And it was seriously discussed and it was rejected because it might actually show results that Johnson and Johnson would not have answers to, correct? MS, O'CONNOR: Objection to the form of the question. Vague and ambiguous. A That's what you are saying. I don't agree with that. Q By the way, there was a time when part of your function involved something known as the MS, o'CONNOR: Objection to the form. Q By the way, there was a time when part of your function involved something		Page 93		Page 95
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20 A would have had toxicology, research and 20 A An K and D person.	25	A Would have had toxicology, research and	25	A An R and D person.
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	Page 97		Page 99
1	Q Within your division, correct?	1	A Yes.
2	A Correct.	2	Q Helen, it is raised as part of the
3	Q Owen Rankin we talked about.	3	discussion, whether you are going to share with the
4	Fritz Grutzner, who was that?	4	federal government the information you have
5	A Vice-President of the baby company, Baby	5	concerning Oral lavage data and the response when
6	Products Company.	6	someone is exposed to Johnson's Baby Powder,
7	Q Vice-President of the whole company?	7	correct?
8			
9	A Of the Baby Division.	8	MS. O'CONNOR: Objection to the form
	Q Then you have the corporate lawyer, John	9	of the question. You can answer.
10	O'Shaughnessy?	10	A I have to read this.
11	A Correct.	11	Q Sure. Take your time.
12	Q Then you have Clayton Paterson. Who was	12	A What is the question?
13	that?	13	Q It talks about exchanges or information
14	A Regulatory attorney.	14	being provided by Johnson and Johnson to the
15	Q So he is a lawyer for regulations?	15	National Toxicology Program, correct?
16	A Yes.	16	A Yes.
17	Q Then you have Kathleen Dittman. Who is	17	Q And Helen writes, "For your information,
18	she?	18	although I did receive the 4-29 meeting minutes
19	A She was a global marketing person.	19	recommending the inclusion of the oral lavage data
20	Q Do you have Sarah Colamarino. Who was	20	data and the response, I elect not to do so for the
21	she?	21	reasons below." Are you with me?
22	A Communications.	22	A I see that, yes.
23	Q Michael Chudkowski you talked about before?	23	Q It says one. "I don't know what the oral
24	A Yes.	24	data would add to the argument we put forth in the
25	Q Marjorie McTernan?	25	document. NTP, that's at the National Toxicology
	Page 98		Page 100
1	A Regulatory.	1	Program, right?
1 -		1 +	i logiam, right:
2	Q A lawyer?	2	A Correct.
			<u> </u>
2	Q A lawyer?	2	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to
2 3	Q A lawyer? A No.	2 3	A Correct. Q "Has not made any connections with oral
2 3 4	Q A lawyer?A No.Q Robert Armstrong, he was a doctor?	2 3 4	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to
2 3 4 5	Q A lawyer?A No.Q Robert Armstrong, he was a doctor?A Yes.	2 3 4 5	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to their attention." Do you see that?
2 3 4 5 6	Q A lawyer?A No.Q Robert Armstrong, he was a doctor?A Yes.Q In your division?	2 3 4 5 6	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to their attention." Do you see that? A Yes.
2 3 4 5 6 7	 Q A lawyer? A No. Q Robert Armstrong, he was a doctor? A Yes. Q In your division? A Yes. 	2 3 4 5 6 7	A Correct. Q "Has not made any connections with oral ingestion of tale. Why would we want to draw to their attention." Do you see that? A Yes. Q "Two, the purpose of doing an oral study
2 3 4 5 6 7 8	 Q A lawyer? A No. Q Robert Armstrong, he was a doctor? A Yes. Q In your division? A Yes. Q And Michael Connors, who was he? 	2 3 4 5 6 7 8	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to their attention." Do you see that? A Yes. Q "Two, the purpose of doing an oral study with labeled talc is to understand the kinetics of
2 3 4 5 6 7 8	Q A lawyer? A No. Q Robert Armstrong, he was a doctor? A Yes. Q In your division? A Yes. Q And Michael Connors, who was he? A Marketing.	2 3 4 5 6 7 8	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to their attention." Do you see that? A Yes. Q "Two, the purpose of doing an oral study with labeled talc is to understand the kinetics of talc after oral ingestion. The data would be more
2 3 4 5 6 7 8 9	Q A lawyer? A No. Q Robert Armstrong, he was a doctor? A Yes. Q In your division? A Yes. Q And Michael Connors, who was he? A Marketing. Q Then you have Neal Matheson. Who is he? A The head of the R and D.	2 3 4 5 6 7 8 9	A Correct. Q "Has not made any connections with oral ingestion of talc. Why would we want to draw to their attention." Do you see that? A Yes. Q "Two, the purpose of doing an oral study with labeled talc is to understand the kinetics of talc after oral ingestion. The data would be more important when considering the role talc plays as an excipient."
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	Page 101		Page 103
1	Hopkins, right?	1	Q Do you have any information that the
2	A That is what looks like, yes.	2	information that Johnson and Johnson had in its
3	Q What I'm trying to understand is to start,	3	possession concerning the ability of talc to reach
4	why is Johnson and Johnson relying upon an outside	4	the ovary discussed in the emails was ever
5	consultants for some issue as important as this? Do	5	communicated to the federal government?
6	you know?	6	MS. O'CONNOR: Objection to the form
7	MS. O'CONNOR: Objection. Called for	7	of the question. You may answer.
8	speculation. You can answer.	8	A I don't know that.
9	A No, I don't know.	9	THE VIDEOGRAPHER: The time is now
10	Q Hopkins writes, "I would agree with	10	12:44 p.m. We are going off the record.
11	Helen." What is her position again?	11	(Luncheon recess taken)
12	A Toxicology.	12	` '
13	Q He is a toxicologist. "That including the	13	
14	results of an old oral study, may create issues that	14	THE VIDEOGRAPHER: The time is 1:34 and we
15	do not yet exist." Correct?	15	are back on the video record.
16	A That's what it says.	16	
17	Q So he is saying, let's not give that to the	17	BY MR. PLACITELLA:
18	federal government, right?	18	
19	MS. O'CONNOR: Objection to the	19	Q I'm going to spend a few minutes,
20	characterization.	20	hopefully not too long, asking about specific
21	A That is your interpretation.	21	information and whether it was shared with you.
22	Q Well, is there was any other why to	22	J & J-8 is an April 15, 1969,
23	interpret it?	23	J and J memo to William Ashton. Do you know who
24	MS. O'CONNOR: Objection.	24	William Ashton is?
25	A I didn't write it.	25	A I knew of him, yes.
	Page 102		Page 104
			1age 104
1	Q But you were there. Do you know what the	1	Q Did you ever meet him?
1 2		1 2	
	Q But you were there. Do you know what the		Q Did you ever meet him? A I met him once. Q The memo is from Dr. Thompson. Do you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q But you were there. Do you know what the intent was? A No. Q It says, "As far as doing a new oral study with radio label." Do you know what radio label means? A No. Q "This is not really good value for money since, although it may show that orally ingested talc can find its way to the ovary, it can raise problems that we don't have answers to." That is what is written to the Vice-President of the company, the head of toxicology and the head lawyer about what information should be provided to the federal government concerning whether talc can reach a woman's ovary, correct? MS. O'CONNOR: Objection to the form of the question. Compound, vague. A That's what it said, what you just read. Q Am I correct that study was never done? A I don't know that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Did you ever meet him? A I met him once. Q The memo is from Dr. Thompson. Do you know who he was? A No. Q Did you know he was at one point the medical director at Johnson and Johnson? A The name is not familiar to me. Q The memo starts out that, "Over the years, I have reviewed literature of the hazards related to the inhalation of talc particles on several different occasions. In your memorandum you indicate Tremolite does have needle type crystals and that our position has been that these can penetrate the skin and cause irritation." Do you see that? A Yes, I see there. Q Then it goes on In the middle, next paragraph it says, "There are reports in the literature concerning talcosis, which, as you know, is a form of pneumocomiosis attributed to the talc." Then if you go down a couple more
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q But you were there. Do you know what the intent was? A No. Q It says, "As far as doing a new oral study with radio label." Do you know what radio label means? A No. Q "This is not really good value for money since, although it may show that orally ingested talc can find its way to the ovary, it can raise problems that we don't have answers to." That is what is written to the Vice-President of the company, the head of toxicology and the head lawyer about what information should be provided to the federal government concerning whether talc can reach a woman's ovary, correct? MS. O'CONNOR: Objection to the form of the question. Compound, vague. A That's what it said, what you just read. Q Am I correct that study was never done? A I don't know that. Q Well, do you have any information that that study was ever done?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q Did you ever meet him? A I met him once. Q The memo is from Dr. Thompson. Do you know who he was? A No. Q Did you know he was at one point the medical director at Johnson and Johnson? A The name is not familiar to me. Q The memo starts out that, "Over the years, I have reviewed literature of the hazards related to the inhalation of talc particles on several different occasions. In your memorandum you indicate Tremolite does have needle type crystals and that our position has been that these can penetrate the skin and cause irritation." Do you see that? A Yes, I see there. Q Then it goes on In the middle, next paragraph it says, "There are reports in the literature concerning talcosis, which, as you know, is a form of pneumocomiosis attributed to the talc." Then if you go down a couple more sentences, "Furthermore, we have occasionally received inquiries from various individuals,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q But you were there. Do you know what the intent was? A No. Q It says, "As far as doing a new oral study with radio label." Do you know what radio label means? A No. Q "This is not really good value for money since, although it may show that orally ingested talc can find its way to the ovary, it can raise problems that we don't have answers to." That is what is written to the Vice-President of the company, the head of toxicology and the head lawyer about what information should be provided to the federal government concerning whether talc can reach a woman's ovary, correct? MS. O'CONNOR: Objection to the form of the question. Compound, vague. A That's what it said, what you just read. Q Am I correct that study was never done? A I don't know that. Q Well, do you have any information that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q Did you ever meet him? A I met him once. Q The memo is from Dr. Thompson. Do you know who he was? A No. Q Did you know he was at one point the medical director at Johnson and Johnson? A The name is not familiar to me. Q The memo starts out that, "Over the years, I have reviewed literature of the hazards related to the inhalation of talc particles on several different occasions. In your memorandum you indicate Tremolite does have needle type crystals and that our position has been that these can penetrate the skin and cause irritation." Do you see that? A Yes, I see there. Q Then it goes on In the middle, next paragraph it says, "There are reports in the literature concerning talcosis, which, as you know, is a form of pneumocomiosis attributed to the talc." Then if you go down a couple more sentences, "Furthermore, we have occasionally

Page 105 Page 107 1 expressing concern over the possibility of the 1 you to when you were answering Interrogatories on 2 adverse effects of the lungs of babies or mothers 2 behalf of Johnson and Johnson? 3 who might inhale any substantial amounts of our talc 3 A I have never seen anything in this memo formulations." 4 4 before. 5 5 Were you aware in as far back as 1969 Q Was this document made available you to to 6 the doctors within Johnson and Johnson were 6 produce for the plaintiffs in the case that you were 7 discussing risks to babies who might inhale talc 7 certifying answers to Interrogatories? 8 from your products? 8 MS. O'CONNOR: Objection to the form. 9 MS. O'CONNOR: Objection to the form 9 Mischaracterizes her testimony, calls for a legal 10 of the question. You can answer. 10 conclusion. You may answer. 11 A I was not aware of anything written here. 11 A I don't remember seeing this. Q It goes down a little further and says, O 399 is a document that was produced from 12 12 "Obviously, if we do include tremolite, in more than 13 the files of Johnson and Johnson. It is entitled 13 14 unavoidable trace amounts, this sort of negation of 14 Pulmonary Talcosis as a Result of Massive Aspiration 15 such inquires could no longer pertain." Do you see 15 of Baby Powder. Do you see that? 16 that? 16 A I see the title, yes. O Have you ever seen this document before? 17 A Yes. 17 18 Q When you answered the Interrogatories 18 A No. saying that there was no evidence of Tremolite, were 19 19 Q You see that it is from a study from 20 you aware of this information? 20 May 1977 and in the published medical literature? MS. O'CONNOR: Objection to the form A I see that date, yes. 21 21 of the question. You may answer. 22 Q If you go to the next page under 22 23 A This is the first I've seen this. 23 discussion, it says, "The major ingredients in most 24 brands of baby powder is talc and we believe our 24 Q We will go to the next page, please. 25 Dr. Thompson further states, "Since 25 patient had talc pneumoconiosis. This disease is Page 106 Page 108 1 encountered as an occupational hazard in mining." Do 1 pulmonary disease, including inflammatory 2 fibroplastic and neoplastic types, appear to be on 2 you see that? 3 the increase, it would seem to be prudent to limit 3 MS. O'CONNOR: Objection to the form. any possible content of Tremolite in our powder 4 MR. PLACITELLA: Maybe I read it 4 5 5 formulations to an absolute minimum." Do you see wrong. 6 that? 6 Q "As an occupational hazard in the mining 7 7 and processing of talc as well as in numerous A Yes. 8 8 industries in which talc is used." Do you see that? Q Were you ever told there was Tremolite in 9 the baby powder formulation? 9 A I see that, yes. 10 A Not to my knowledge. 10 Q And then if you go to the last page, it Q It goes on to say a further down, "It is 11 talks about a case of talc pneumoconiosis being 11 conceivable that a similar situation might eventually reported by Nam and Gracey in 1972. Do you see 12 12 arise if it became known that our talc formulations 13 13 that? 14 contained any significant amount of Tremolite. Since 14 A I see that, yes. the usage of this product is so widespread and the 15 Q "The patient had developed extensive 15 existence of pulmonary disease is increasing, it is talcosis as a result of liberal use of cosmetic 16 16 talcum powder over a period of 20 years." Correct? 17 not inconceivable that we could become involved in 17 18 litigation in which pulmonary fibrosis and other 18 MS O'CONNOR: Objection. You are 19 lung changes might be, rightfully or wrongfully, 19 reading only parts of it. 20 attributed to the inhalation of our powder 20 Q I'll read the whole thing. "One of the 21 formulations. It might be that someone in the law 21 most bizarre cases of talc pneumoconiosis was department should be consulted with regard to the 22 22 reported by the Nam and Gracey in 1972. Although 23 defensibility of our position in the event such a 23 death was from an unrelated disease, the patient had situation could ever arise." developed extensive talcosis as a result of liberal 24 24 25 Was this information ever made known 25 use of cosmetic talcum powder over a period of

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1	twenty years." Do you see that?	1	preceding this or after this.
2	A I see it says that, yes.	2	Q I was asking what was communicated to you
3	Q Now, when you were telling patients, or	3	were you ever told that it was being discussed
4	consumers, that Johnson and Johnson wasn't aware of	4	within Johnson and Johnson that it was dangerous for
5	any injury resulting from the use of cosmetic talcum	5	babies to be around baby powder because of the
6	powder, were you ever made aware of this article?	6	danger of inhalation?
7	MS. O'CONNOR: Objection to the form	7	A No, because I don't believe it is
8	of the question.	8	dangerous to be around when it is used properly.
9	A This is the first I've seen this article,	9	Q We will get to that.
10	yes.	10	If you go a little bit further down,
11	Q Now, do you still have 408?	11	there's a page entitled Insights and Implications.
12	A Right.	12	Do you see that? A few pages down.
13	Q There's a section of the Power Point	13	A Okay.
14	entitled Disadvantages of Using Powder and Ways of	14	Q It says, "Insights. Powder is messy to
15	Copying. I put it up on the screen. Do you see	15	use. Let's out a cloud of dust when you put the
16	that?	16	bottle down. Goes everywhere. Can't aim it where
17	A I see it on the screen. I didn't get to	17	you when you want it. Difficult to control the
18	it yet. All right.	18	amount that comes out." Did I read that correctly?
19	Q It says Disadvantages of Using Powder.	19	A That is what is written there.
20	One, dangers of powder inhalation. Two, mess,	20	Q It says, "Spills when bottle is knocked
21	residue on floor, bathmat, dresser. Do you see	21	over." Correct?
22	that?	22	A That's what it says here, yes.
23	A Yes, I see it.	23	Q There was a point in time when you were
24	Q So at the time that you were interacting	24	actually brought into the discussion at Johnson and
25	with consumes and the media, did the people at	25	Johnson concerning what the risks of inhalation were
			Page 112
1		1	
1	Johnson and Johnson tell you that they had	1	from using baby powder, correct?
2 3	determined that were one of the disadvantages of	2 3	A I don't know what you are referring to,
4	using Johnson's Baby Powder was the dangers of inhalation?	4	brought into the discussion.
5	MS. O'CONNOR: Objection to the form	5	Q Did you ever have conversations with the doctors and the scientists at Johnson and Johnson
6	of the question. You may play answer it.	6	concerning what the risks were to babies who inhaled
7	A I don't know that's what this is saying.	7	Johnson's Baby Powder?
8	I don't know that swhat this is saying. I don't know the purpose of this document.	8	A We had many conversations about the
9	Q The title of the document is Baby Powder	9	product. As I told you we took any allegations very
10	Usage and Observation Study. October, November	10	seriously or any concerns anybody raised. There
11	2001. Correct?	11	were many discussions because of that.
12	A Yes.	12	Q Including the poisoning of babies?
13	Q That's when you were interacting with	13	MS. O'CONNOR: Objection to the form
14	consumers and the media about Johnson's Baby Powder,	14	of the question.
15	correct?	15	A We did not poison babies.
16	A That's correct.	16	Q Did you discuss with the doctors at
17	Q My question to you is were you aware that	17	Johnson and Johnson that the inhalation of Johnson
18	it was being discussed at that point in time inside	18	Baby Powder would go deep into the lungs of babies
19	of Johnson and Johnson that there was a danger to	19	and other human beings?
20	using baby powder because of inhalation?	20	MS. O'CONNOR: Objection to the form
21	MS. O'CONNOR: Objection to the form	21	of the question. You can answer.
22	of the question. Vague, ambiguous.	22	A No, we didn't have discussions that it
23	A Again, I don't know the source of this	23	would go deep into the lungs, no.
24	document because it is not mine, nor was I copied on	24	Q I give you a document marked 393, which
25	any of it. So I don't know what the discussion was	25	you look on the very last page, was produced from

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1	your file.	1	Q Then right below it it says, "In theory,
2	I'm referring to, if you look at the	2	some particles could, and then there's crossed out,
3	second page by the way, you got this document.	3	find their way, go lower in the pulmonary
4	It says you got it. Up here, front page, Nancy Musco,	4	system and attach to the lower bronchial tree or
5	confidential.	5	even reach the alveolus." Correct?
6	A It is from me on the top part.	6	MS. O'CONNOR: Objection to the form
7	Q There's a string of emails below?	7	of the question. You can answer.
8	A I assume I got it.	8	A That is what it says here. I don't know
9	Q If you go to the second page there's an	9	who wrote this or where it is came from.
10	email from Dr. Chase, who worked in your department.	10	Q Talking about that's deep in the lung,
11	The subject is Q and A, regarding baby powder.	11	isn't it?
12	Importance, high, sensitivity, confidential. Do you	12	MS. O'CONNOR: Objection to the form.
13	see that?	13	Q It doesn't get any deeper than that.
14	A I see that, yes.	14	MS. O'CONNOR: Same objection.
15	Q It talks about questions being posed to	15	A As I said, I've never seen this before and
16	the doctor. Do you see that?	16	I don't know who wrote it.
17	MS. O'CONNOR: Objection to the form	17	Q It was attached to the email you got.
18	of the question.	18	MS. O'CONNOR: Objection to the form.
19	A He has questions.	19	You can answer.
20	Q Right. What is referenced is a file	20	A If you look, I'm the last one on this
21	called, "What are the risks of inhalation?" Do you	21	email chain and the I was not copied on the latter
22	see that?	22	part of it.
23	A I see that, yes.	23	Q They have kept this from you?
24	Q 394 is the next in the collective Bates	24	MS. O'CONNOR: Objection to the form.
25	numbers, and the title is: What are the Risks of	25	A No, I don't know that I got it. Maybe I
	Page 114		Page 116
1	Inhalation." Do you see that?	1	did, but I don't remember.
2	A Yes.	2	Q Did they ever communicate to you that the
3	Q Do you recall this discussion, now looking	3	doctors within Johnson and Johnson were writing
4	at this document?	4	papers indicating that people would inhale
5	A No, I don't.	5	baby powder and under normal use and theory, some of
6	Q Do you see where it talks about the risks	6	that powder would reach the lower bronchial tree and
7	of inhalation related to the amount of baby powder	7	even the alveolus of the lung?
8	inhaled?	8	MS. O'CONNOR: Objection to the form.
9	MS. O'CONNOR: Objection to the form	9	Compound, vague, ambiguous. You may answer.
10	of the question.	10	A I don't know who wrote this.
11	A I see what it says here.	11	Q It also talks about, "Two other ways that
12	Q It says, "The first method of inhalation	12	the Johnson's Baby Powder could be inhaled,
13	is that which occurs naturally as with the	13	including a method of inhalation which would entail
14	administration of any powder. Upon the	14	a small amount of talcum being expressed directly
15	administration of a minute amount of the powder will	15	from the container into proximity of the know or
16	be aerosolized and may be inhaled." Do you see	16	mouth, or potentially larger amount being expressed
10	be acrosofized and may be inflated. Do you see	1 - "	
17	that?	17	intentionally or unintentionally and having a child
	that? A That's what it says, yes.		intentionally or unintentionally and having a child play with the powder." Do you see that?
17	that? A That's what it says, yes. Q In your interface with consumers, the	17 18 19	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here.
17 18 19 20	that? A That's what it says, yes. Q In your interface with consumers, the media, the federal government, did you ever	17 18 19 20	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here. Q It talks about, "That creating a deep
17 18 19 20 21	that? A That's what it says, yes. Q In your interface with consumers, the media, the federal government, did you ever communicate that you knew that the baby powder would	17 18 19 20 21	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here. Q It talks about, "That creating a deep inspiration and an inflammatory response that could
17 18 19 20 21 22	that? A That's what it says, yes. Q In your interface with consumers, the media, the federal government, did you ever communicate that you knew that the baby powder would be aerosolized during normal usage and inhaling?	17 18 19 20 21 22	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here. Q It talks about, "That creating a deep inspiration and an inflammatory response that could theoretically lead to gas exchange issues at the
17 18 19 20 21 22 23	that? A That's what it says, yes. Q In your interface with consumers, the media, the federal government, did you ever communicate that you knew that the baby powder would be aerosolized during normal usage and inhaling? MS. O'CONNOR: Objection to the	17 18 19 20 21 22 23	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here. Q It talks about, "That creating a deep inspiration and an inflammatory response that could theoretically lead to gas exchange issues at the level of the alveolus." Correct?
17 18 19 20 21 22 23 24	that? A That's what it says, yes. Q In your interface with consumers, the media, the federal government, did you ever communicate that you knew that the baby powder would be aerosolized during normal usage and inhaling? MS. O'CONNOR: Objection to the characterize of the testimony. Vague and ambiguous.	17 18 19 20 21 22 23 24	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here. Q It talks about, "That creating a deep inspiration and an inflammatory response that could theoretically lead to gas exchange issues at the level of the alveolus." Correct? A No. It talks about it leading to coughing
17 18 19 20 21 22 23	that? A That's what it says, yes. Q In your interface with consumers, the media, the federal government, did you ever communicate that you knew that the baby powder would be aerosolized during normal usage and inhaling? MS. O'CONNOR: Objection to the	17 18 19 20 21 22 23	intentionally or unintentionally and having a child play with the powder." Do you see that? A That is what is says here. Q It talks about, "That creating a deep inspiration and an inflammatory response that could theoretically lead to gas exchange issues at the level of the alveolus." Correct?

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1	Q It says, "Deep inspiration of a small	1	MS. O'CONNOR: Objection.
2	amount of talcum, as with any powder, would lead to	2	A I didn't say this. I can't guess what
3	coughing or sneezing, both natural measures against	3	David Chase meant.
4	foreign bodies entering the respiratory tract. A	4	Q It goes only to say, "Should it include
5	minute amount could be breathed more deeply is	5	emperical information on levels of exposure, on
6	unlikely to have a deleterious effect, however,	6	levels of exposure, know to be likely from the
7	although theoretically, with cross outs,	7	normal use of the product, according to
8	inflammatory responses could theoretically lead to	8	instructions, and on the magnitude of those levels,
9	gas exchange issues at the level of the alveolus."	9	compared to amounts of exposure needed to induce
10	Do you see that?	10	cancer or any other adverse effects in animal
11	MS. O'CONNOR: Objection to the form	11	studies." Do you see that?
12	of the question.	12	A Yes.
13	A I see that it says that here, yes.	13	Q "I understand that such information is
14	Q Was this information ever shared with you?	14	available and has been made available in previous
15	A This is the first I've ever seen this	15	talc PR cases."
16	paper.	16	What is he talking about when he
17	Q It goes on to say there's a third way	17	says, "Previous talc PR cases?"
18	inhalation occur. It says, "More severe inhalation	18	A I don't know.
19	of large amounts of powder is the third process. As	19	A Was it ever communicated to you that
20	it relates to this product, this would entail	20	Johnson and Johnson had emperical information on
21	removal of the top of the container and multiple	21	just how much exposure would occur from its normal
22	grams of material entering the nose and/or mouth."	22	use of Johnson's Baby Powder?
23	Do you see that?	23	MS O'CONNOR: Objection to the form.
24	A Yes. That is what it says.	24	You can answer.
25	Q Was this information ever shared with you?	25	A I don't know what David Chase is referring
	Page 118		Page 120
1	A This is the first I've seen this paper.	1	to here.
2	Q Go back to 393, please, which attaches the	2	Q Did they ever discuss with you this issue
3	paper, "What are the Risks of Inhalation."	3	of the magnitude of levels needed to induce cancer?
4	Now, this is from David Chase, a	4	Was that ever communicated to you?
5	doctor, correct?	5	A The specifics of the tests were not
6	A He is the PhD.	6	communicated here. This is a scientist who was
7	Q A PhD?	7	asking for specific information, and I don't know
8	A Yes.	8	what he is referring to.
9	Q What he says after reviewing the paper is,	9	Q Let me ask you this. You were in charge
10	"This strikes me as being a fairly complete	10	of interacting with the public, with consumers, with
11	analysis. I took the liberty of making a few	11	the media. Did this Q and A, or did this paper ever
12	suggestions concerning wording. I also have a few	12	see the light of day? Did you ever see it?
13	larger questions. Will this document be reviewed by	13	MS. O'CONNOR: Objection to the form
14	legal, for example, John O'Shaughnessy, who has had a	14	of the question. Vague, ambiguous, compound. You
15	great deal of experience with talc issues over the	15	can answer.
16	years."	16	A I don't remember the specific paper, no.
17	Then he says, "Will it be reviewed by	17	Q Was there any information like this ever
	· · · · · · · · · · · · · · · · · · ·	1	
18	external advisers with experience in talc issues."	18	provided to consumers, patients, doctors, anybody to
19	external advisers with experience in talc issues." What is PR advisers, do you know?	19	your knowledge?
19 20	external advisers with experience in talc issues." What is PR advisers, do you know? A Stands for public relations.	19 20	your knowledge? MS. O'CONNOR: Objection. Compound,
19 20 21	external advisers with experience in talc issues." What is PR advisers, do you know? A Stands for public relations. Q So you had external public relation	19 20 21	your knowledge? MS. O'CONNOR: Objection. Compound, vague and ambiguous. You can answer it.
19 20 21 22	external advisers with experience in talc issues." What is PR advisers, do you know? A Stands for public relations. Q So you had external public relation advisers to determine what information you can	19 20 21 22	your knowledge? MS. O'CONNOR: Objection. Compound, vague and ambiguous. You can answer it. A What do you mean, information like this?
19 20 21 22 23	external advisers with experience in talc issues." What is PR advisers, do you know? A Stands for public relations. Q So you had external public relation advisers to determine what information you can provide to the public?	19 20 21 22 23	your knowledge? MS. O'CONNOR: Objection. Compound, vague and ambiguous. You can answer it. A What do you mean, information like this? Q The information that's contained in this
19 20 21 22 23 24	external advisers with experience in talc issues." What is PR advisers, do you know? A Stands for public relations. Q So you had external public relation advisers to determine what information you can provide to the public? MS. O'CONNOR: Objection to the form.	19 20 21 22 23 24	your knowledge? MS. O'CONNOR: Objection. Compound, vague and ambiguous. You can answer it. A What do you mean, information like this? Q The information that's contained in this document and the attachments. Was any of this
19 20 21 22 23	external advisers with experience in talc issues." What is PR advisers, do you know? A Stands for public relations. Q So you had external public relation advisers to determine what information you can provide to the public?	19 20 21 22 23	your knowledge? MS. O'CONNOR: Objection. Compound, vague and ambiguous. You can answer it. A What do you mean, information like this? Q The information that's contained in this

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1	doctor, media outlet or consumer?	1	asked you specifically, it is a simple yes or no
2	MS. O'CONNOR: Same Objection.	2	answer. Did you provide the information to any
3	A Information was provided telling the	3	doctor, to any consumer, to any media outlet that is
4	consumers the best way to use the product and that	4	contained in the document we went over called What
5	the product was safe.	5	are the Risks of Inhalation? Did you ever do that?
6	Q Maybe I wasn't clear in my question.	6	MS. O'CONNOR: Same objection. Over
7	The information concerning the	7	broad, vague, ambiguous, compound. You may answer.
8	dangers of inhalation and the ability of the product	8	A My answer would have to be the same. We
9	to get deep into the lungs, was that ever	9	talked about the normal use and the best what way to
10	communicated to consumers, doctors or the media by	10	use the products. We didn't talk about exaggerated
11	you as the person who was the spokesperson for	11	studies or anything like that. It was the normal
12	Johnson and Johnson on such issues?	12	use.
13	MS. O'CONNOR: Objection to the form	13	Q The answer to my question is no, you never
14	of the question, compound, vague, ambiguous. You	14	provided this information, correct?
15	can answer.	15	MS. O'CONNOR: Same objection.
16	A The safety of the product and normal use	16	A We provided safety information based on
17	was related to the consumers.	17	the normal use.
18	Q Ma'am, that wasn't my question. My	18	Q So the answer to my question is no, you
19	question was did you ever communicate to the	19	never provided the information and the inhalation
20	consumer, a doctor or the media, the information	20	risks documents we went through, correct? You
21	concerning the risks of inhalation in this document	21	really refuse to answer the question?
22	we just went over?	22	MS. O'CONNOR objection.
23	MS. O'CONNOR: Same objection, same	23	Mischaracterizing
24	answer.	24	Q Let me ask you this question. You met
25	A I would have to answer the same way. What	25	with counsel 16 hours?
	Page 122		Page 124
1	-	1	
1 2	we talked to consumers and doctors about was the way	1 2	MS. O'CONNOR: Again,
2	we talked to consumers and doctors about was the way to use the product and the safety and normal use of	2	MS. O'CONNOR: Again, mischaracterizing the testimony.
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	Page 125		Page 127
1	misinformation has been given to the public. That's	1	yourself and a number of other people, correct?
2	why I spend my time volunteering.	2	A Yes. I'm copied on this.
3	Q You wanted to help Johnson and Johnson	3	Q The subject is talc particle size
4	depends itself, right?	4	distribution. Do you see that?
5	MS. O'CONNOR: Objection.	5	A That's what it says, yes.
6	Mischaracterizes the testimony, argumentative. You	6	Q It starts out, there's an earlier memo
7	can answer.	7	dated May 21, 2009 to yourself from Charles
8	A I want to make sure the right, correct	8	Wajszczuk, and I'll pull it up so we are all on the
9	information reaches consumers.	9	same page.
10	Q Even if you weren't provided the right,	10	MS. O'CONNOR: Can we have your
11	correct information yourself, correct?	11	question?
12	MS. O'CONNOR: Objection to the form.	12	Q Charles Wajszczuk, subject talc particle
13	You can answer.	13	size distribution, and he asks by the way, he is
14	A As I said, I wanted to make sure the right	14	a doctor, right?
15	information reaches them.	15	A That's correct.
16	Q We are going to spend some time and with	16	Q He worked in your department?
17	your permission I'll put this deposition up on the	17	MS. O'CONNOR: Objection to the form.
18	internet and you will have your answer. How about	18	You can answer.
19	that?	19	A He worked in research and development,
20	MS. O'CONNOR: Wildly inappropriate,	20	yes.
21	argumentative. You don't have to answer that	21	Q He asks, "Do we have an actual size of our
22	question.	22	talc particles? Specifically how many, or what
23	Q Am I correct that Johnson and Johnson	23	percentage in the final product are less than point
24	never told you that it had no idea what the exact	24	one micrometer or greater than point one micrometer,
25	particle size were of the baby powder in evaluating	25	but less than point one micrometer or one to five
	particle size were of the budy powder in evaluating		out less than point one interemeter of one to rive
	Page 126		Page 128
1	how much of it can reach the lungs of babies and	1	micrometers, but greater than five, but less than
2	other human beings?	2	ten micrometers." Do you see that?
3	MS. O'CONNOR: Objection to the form.	3	A Yes.
4	You you may answer. Is there a question there?	4	Q And in one of the responses from Katharine
5	A Rephrase it, please.	5	Martin on the page before who is Katherine
6	Q Sure. Am I correct that Johnson and	6	Martin, by the way?
7	Johnson did not know, and never studied, what the	7	A She was the director of research and
8	size range of particles were in Johnson's Baby	8	development.
9	Powder in order to estimate correctly just how much	9	Q She was head of R and D?
10	talc would reach the lungs of a human being?	10	MS. O'CONNOR: Objection.
11	MS. O'CONNOR: Objection to the form	11	Q That's different?
12	of the question. Compound, vague and ambiguous.	12	A One of the directors.
13	You may answer.	13	Q She writes, "Do we have the ability to run
14	A I don't know the specific study. That	14	particle size distribution internally or access this
15	would have been in the field of microbiology.	15	from our suppliers? We need for our powders
16	Q 392 starts with an email from David Chase	16	globally, including tale and corn starch. Any
17	to Mathew Noble and other people in your	17	thoughts." Did I read that correctly?
18	department, including yourself, correct?	18	A That's what it says.
19	MS. O'CONNOR: Objection to the form	19	Q Before that, Charles says he needs this
20	of the question. You may answer.	20	information vital to your argument, correct?
21	A It is a long thing.	21	A He says this may well be vital.
22	Q Let's get the title of the first email and	22	Q Right. Then if you go to the very front
23	then we will go backwards.	23	page, Dr. Chase responds by saying he would be in
24	May 22, 2009 from	24	favor of finding out what the particle size
		1 25	amonifications and for asserting and a tale might?
25	Charlie Wajszczuk to Dr. David Chase, Mathew Noble,	25	specifications are for cosmetic grade tale, right?

	Page 129		Page 131
1	A That's what it says.	1	any consumer?
2	Q Who is Mathew Noble? What was his job?	2	MS. O'CONNOR: Objection to the form
3	A I believe he was Global R and D director.	3	of the question. Compound, vague, ambiguous. You
4	Q He was in charge of or he was a director	4	may answer.
5	for of R and D on a global basis?	5	A I don't see what that has to do with what
6	A One of them, yes.	6	a consumer's question may have been. I don't know
7	Q Who was Euen Gunn?	7	if that was ever given. I don't know.
8	A He was also an R and D director.	8	Q How about any doctor? Certainly a doctor
9	Q Who was they Delores Santora?	9	would want to know this, don't you think?
10	A Development person.	10	MS. O'CONNOR: Objection to the form.
11	Q When it says it has the designation JJISG	11	A I don't know.
12	for Mathew Noble, what does that stand for?	12	Q Did you ever give that information to any
13	A Whatever country he was from.	13	doctors?
14	Q He wasn't in the U.S.?	14	MS. O'CONNOR: Objection.
15	A No.	15	A I personally didn't, no.
16	Q Dr. Chase writes, "He would be in favor of	16	Q Do you have any evidence as you sit here
17	finding out what particle size specifications are	17	today that this information was ever communicated by
18	for cosmetic grade talc." Do you see that's?	18	Johnson and Johnson to any doctors?
19	A That's what it says, yes.	19	MS. O'CONNOR: Objection to the form.
20	Q As of May 22, 2009, the people on this	20	You may answer it.
21	email, they don't have any idea what the particle	21	A I don't know.
22	size is for all of the cosmetic grade talc, do they?	22	MR. PLACITELLA: Mark this Musco-2.
23	MS. O'CONNOR: Objection to the	23	(The above document is marked
24	characterization of the document. You may answer.	24	Musco-2.)
25	A It appears they are asking for it.	25	
	Page 130		Page 132
1	Q The response is, and you got a copy of	1	Q I'm not going to do all of that. That's
2	this from Charles Wajszczuk, "The size does matter.	2	the good news.
		4	the good news.
3		3	=
3 4	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy		I'm going to tell you what that is. Those are all the tests that I marked at a
	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy	3	I'm going to tell you what that is. Those are all the tests that I marked at a
4	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy necessary. Mechanical obstruction or physiologic	3 4	I'm going to tell you what that is.
4 5	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy	3 4 5	I'm going to tell you what that is. Those are all the tests that I marked at a deposition of John Hopkins when he was testifying on
4 5 6	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy necessary. Mechanical obstruction or physiologic interference with blood gas exchange. The first	3 4 5 6	I'm going to tell you what that is. Those are all the tests that I marked at a deposition of John Hopkins when he was testifying on behalf of Johnson and Johnson about whether or not
4 5 6 7	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy necessary. Mechanical obstruction or physiologic interference with blood gas exchange. The first seems to be the issue with talc. Particles accumulate and form a material blockage in the	3 4 5 6 7	I'm going to tell you what that is. Those are all the tests that I marked at a deposition of John Hopkins when he was testifying on behalf of Johnson and Johnson about whether or not there was asbestos ever found in Johnson's Baby
4 5 6 7 8	As to the particle's ability to reach the alveolus. There are two issues that make bronchoscopy necessary. Mechanical obstruction or physiologic interference with blood gas exchange. The first seems to be the issue with talc. Particles	3 4 5 6 7 8	I'm going to tell you what that is. Those are all the tests that I marked at a deposition of John Hopkins when he was testifying on behalf of Johnson and Johnson about whether or not there was asbestos ever found in Johnson's Baby Powder or the mines that the baby powder came from. I want you to just quickly glance through that.
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Page 133 Page 135 1 A What I provided was input into information 1 testing showing asbestos in the mines, would that 2 2 that was on those pages, and anything that was given have been appropriate information to supply in the 3 to the lawyers would have been between the lawyers. 3 Interrogatory answers that you certified as true and 4 Q You never saw physically any of the accurate? 4 5 5 MS. O'CONNOR: Objection to the form testing documents, so as you sit here today, you 6 can't really testify under oath that there were no 6 of the question. Vague, ambiguous, mischaracterizes 7 testing documents showing there was asbestos in 7 the testimony 8 Johnson's Baby Powder or the mines from which it 8 A Again, what was provided was answers to 9 came, because you never looked at the documents 9 those questions as determined by legal counsel. 10 yourself, correct? 10 Q So your role was just to sign it without 11 MS. O'CONNOR: Objection, vague, 11 ever reviewing anything, just relying on whatever the lawyers told you? 12 ambiguous compound. You can answer. 12 A My job was not to look at and review the 13 MS. O'CONNOR: Objection, 13 14 study. I was part of a team. I relied on that team 14 argumentative. 15 for the expertise of that team. Just like a nurse 15 Q Right? That's what happened here? MS. O'CONNOR: I don't know how many 16 taking care of my patients. I am not privy to 16 everything about them, but I'm the communicator. 17 times you are going to mischaracterize documents. 17 18 Q I understand that, Ma'am, but you actually 18 A I was the point person. I provided the 19 certified under oath about what information was 19 names or departments of the correct people who could 20 available and I didn't see anything in the 20 give the information and the final say of that was a Interrogatories that you certified about any tests 21 21 legal matter. showing that was asbestos in either Johnson's Baby 22 22 Q But you did nothing other than to talk to 23 23 the lawyers to verify whether the information you Powder at any point in time, or in any of the mines that were used to supply that powder. Do you agree 24 supplied in Interrogatories was the truth and the 24 25 with me? 25 whole truth, correct? Page 134 Page 136 1 MS. O'CONNOR: Objection to the form. 1 MS. O'CONNOR: Objection to the form. Argumentative, calls for speculation. You can 2 Compound, vague, ambiguous, calls for a Legal 2 3 conclusion. You can answer. 3 A What I answered were the direct questions 4 4 A No, what I did is to make sure the 5 5 asked. Any testing provided, again, was from the correct people were provided the appropriate 6 lawyers. 6 information. 7 Q So the lawyers made the determination as 7 O You never verified that information 8 to what was going to be communicated and what was 8 yourself, correct? 9 not going to be communicated. It was not you. Is 9 A That was not my job. 10 that fair? 10 Q That was not your job? MS. O'CONNOR: Objection to the form MS. O'CONNOR: Objection. 11 11 MR. PLACITELLA: Mark this Musco-3. 12 of the answer. 12 A Since it was a legal matter, they were the 13 (The above document is marked 13 14 appropriate person to make the final decisions. 14 Musco-3.) Q If there was information that was 15 15 withheld, that was done by the lawyers, not you? 16 16 Q You have in front of you a that was marked MS. O'CONNOR: Objection to the form 17 17 at Dr. Hopkins's deposition that was created during 18 of the question. Vague, ambiguous calls for his deposition, which we have now marked as Musco-3. 18 19 speculation. You may answer. 19 I ask you to take a look at that. You have never 20 A The appropriate information was given. 20 seen this chart before, correct? 21 Q What do you mean by that? 21 22 A It was what was determined appropriate for 22 Q Although you spent somewhere around twelve 23 the particular question. hours with the lawyers preparing for this 23 Q Was it appropriate if you had information 24 24 deposition, they never shared this chart with you, 25 in your possession showing that there was asbestos 25 correct?

	Page 137		Page 139
1	A This is the first I've seen it.	1	MS. O'CONNOR: Objection to the form
2	Q As you will see the chart goes in	2	of the question.
3	chronological order.	3	A I'm not familiar with this. I didn't read
4	A It starts in 1967. It seems to be, yes.	4	the exact testing. This the first I've seen it.
5	Q We can put it up on the screen and do it	5	Q Here is my issue. You are looking into
6	easier.	6	the camera saying you believe everything was done
7	This chart, as you see, has the date,	7	right and you say that, but you haven't seen any of
8	the testing entity, the author, the purpose, the	8	the tests on this chart to make that evaluation for
9	method, the mine, what was tested, the precautions	9	yourself, right?
10	and what the tests revealed. Do you see that?	10	MS. O'CONNOR: Objection to the form.
11	A Yes.	11	Argumentative, vague, ambiguous. You can answer.
12	Q No one ever shared with you the tests from	12	A My role was not to read or assess the
13	1971 done by Johnson and Johnson on baby powder	13	studies done.
14	production where the revelation was Tremolite and	14	Q How about the test that was done by
15	Actinolite, correct? That was never shared with	15	Johnson and Johnson on Johnson's Baby Powder in 1973
16	you?	16	that showed Tremolite or Actinolite. You haven't
17	MS. O'CONNOR: Objection to the form.	17	seen there either, right?
18	You can answer.	18	A Again, my role was not to look at the
19	A No.	19	tests.
20	Q No one ever shared with you the test from	20	Q And you never saw the tests on baby powder
21	1971 done by McCrone. McCrone is one of the	21	from 4-27-73, correct?
22	companies you actually list in the Answers to	22	A No.
23	Interrogatories you signed, correct?	23	Q You never saw the test on Shower to Shower
24	A I remember that name was there.	24	done by the FDA in September 1973, correct?
25	Q They did a test of Shower to Shower and	25	MS. O'CONNOR: Objection to the form.
	Page 138		Page 140
1	found traces of chrysotile in one of the additives.	1	You may answer.
2	That was never shared with you, correct?	2	A No, I did not.
3	A This is the first I've seen it.	3	Q Is it fair to say you want to look at it
4	Q Did you ever see a test from August 1972	4	again, that you have never seen any of the tests set
5	done by Johnson and Johnson of Shower to Shower	5	forth on this spreadsheet that was created with the
6	finding about one fiber rod or needle for every 500	6	assistance of Johnson and Johnson's corporate
7	particles, approximately one-third being Tremolite.	7	representative under oath?
8	Have you seen that?	8	MS. O'CONNOR: Objection to the form.
9	MS. O'CONNOR: Objection to the form.	9	You may answer.
10	You can answer.	10	A I would not have seen this.
4 4		1	
11	A I've not seen it, no.	11	Q Open the book to the number 19. Do you
12	A I've not seen it, no.Q Did you ever see a test from 1972 done by	11 12	Q Open the book to the number 19. Do you have it in front of you?
			* *
12	Q Did you ever see a test from 1972 done by	12	have it in front of you?
12 13	Q Did you ever see a test from 1972 done by Sperry Rand on Shower to Shower where the document	12 13	have it in front of you? A Which one are you specifically referring to? Q I put it up there a July 29, 1971, memo
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12 13 14 15 16 17 18 19 20 21 22 23	Q Did you ever see a test from 1972 done by Sperry Rand on Shower to Shower where the document indicated asbestos fibers could be detected in the sample report on chrysotile. Did you ever see that? MS. O'CONNOR: Objection to the form. A No. Q How about 10-27-72, done by McCrone of Johnson Baby Powder batch saying both samples containing insignificant amount of Tremolite. Do you see that? A No, I didn't see anything about insignificant amount.	12 13 14 15 16 17 18 19 20 21 22 23	have it in front of you? A Which one are you specifically referring to? Q I put it up there a July 29, 1971, memo from Nashed to Mr. Foster on Johnson and Johnson letterhead. Do you see that? A Yes, I do. Q It states the talc used in Johnson's Baby Powder is obtained from a selected mine in Vermont where the ore consists of mainly of platy talc with only trace amounts of fibrous minerals, that's Tremolite slash actinolite, do you see that?

	Page 141	340	Page 143
1	interrogatory answers that tremolite was never found	1	worked for Rutgers and was paid by Johnson and
2	in the mines or sources form Johnson's Baby Powder,	2	Johnson?
3	this information was never shared with you, correct?	3	A I don't know the name.
4	MS. O'CONNOR: Objection to the form	4	Q Do you know that she worked as a
5	of the question. Misstates her testimony	5	consultant to Johnson and Johnson to assist them in
6	and the document. You may answer.	6	litigation?
7	A As I explained earlier, my role was not to	7	A I never hear the name.
8	assess the results of studies. My role was to	8	MS. O'CONNOR: Objection to the form.
9	communicate and I worked with all the experts and	9	Q Do you know that she told Johnson and
10	provided the information to the consumers they told	10	Johnson before you ever swore under oath that there
11	me.	11	was no evidence of asbestos in Johnson's Baby
12	Q Whatever they told you. So the	12	Powder, that she actually tested the baby powder and
13	information you provided was only as good as what	13	found asbestos. Did you know that?
14	they told you, correct?	14 15	A Could you rephrase the question?
15	MS. O'CONNOR: Objection to the		Q Sure look at 220. This is a letter from
16 17	form.	16 17	Alice Blount, mineralogist, to the lawyers for
18	A No. I trusted the experts I worked with through the years. That's one thing I always	18	Johnson and Johnson dated April 23, 1998. Do you see that?
	valued.	19	
19 20	Q When you swore under oath under penalty of	20	A That is what it says her, yes. Q In here she talks about the studies she
21	perjury that tremolite was never found in any of the	21	did on Johnson and Johnson's Baby Powder, correct?
22	sources for Johnson's Baby Powder, was the	22	A I have to read it.
23	information in the documents in front of you ever	23	Q Sure. Take your time. Dr. Blount says,
24	conveyed to you?	24	"Although my papers report an improved method for
25	MS. O'CONNOR: Objection to the form.	25	analysis, the determination for the samples labeled
20	MB. 6 661 Work. 6 6 Jection to the form.		unarysis, the determination for the samples labeled
	Page 142		Page 144
1	You may answer	1	L. Johnson and Johnson Vermont Talc, have been done
1 2	You may answer. A This the first I've seen this.	1 2	I, Johnson and Johnson Vermont Talc, have been done by the traditional methods as well."
1 2 3	A This the first I've seen this.	2	by the traditional methods as well."
2	A This the first I've seen this.Q Look at tab 26. It is all in there. We		by the traditional methods as well." Then she goes on to say, "as I told
2	A This the first I've seen this.	2 3	by the traditional methods as well."
2 3 4	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier.	2 3 4	by the traditional methods as well." Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are
2 3 4 5	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr.	2 3 4 5	by the traditional methods as well." Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont
2 3 4 5 6	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was?	2 3 4 5 6	by the traditional methods as well." Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are well below those specified by OSHA." Do you see
2 3 4 5 6 7	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was? A No.	2 3 4 5 6 7	by the traditional methods as well." Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are well below those specified by OSHA." Do you see that?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was? A No. Q Do you know who Dr. Gowdy was? A No. Q Do you see where it talks about trace amounts of the tremolite being found and that this was nothing new in that it was found by both McCrone and Bill Ashton? A Yes, I see that. The levels are extremely low. Q This information was not provided to you when you swore under oath in interrogatory answers that tremolite was never found in any of the sources for Johnson's Baby Powder, correct? MS. O'CONNOR: Objection Mischaracterization. You may answer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	by the traditional methods as well." Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are well below those specified by OSHA." Do you see that? A Yes. Q First time you ever heard this? MS. O'CONNOR: Objection to the form. You can answer. A This is the first I've seen it. Q 218 is a March 16, 1998 letter to John O'Shaughnessy, correct? A Yes. Q John O'Shaughnessey is the same lawyer that was copied on all these emails we went through this morning, right? A His name was on a lot of them, yes. Q And he knew when you were answering Interrogatories in the crush case. He was part of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was? A No. Q Do you know who Dr. Gowdy was? A No. Q Do you see where it talks about trace amounts of the tremolite being found and that this was nothing new in that it was found by both McCrone and Bill Ashton? A Yes, I see that. The levels are extremely low. Q This information was not provided to you when you swore under oath in interrogatory answers that tremolite was never found in any of the sources for Johnson's Baby Powder, correct? MS. O'CONNOR: Objection Mischaracterization. You may answer. A This is the first I've seen it.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	by the traditional methods as well." Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont tale contains trace amounts of asbestos which are well below those specified by OSHA." Do you see that? A Yes. Q First time you ever heard this? MS. O'CONNOR: Objection to the form. You can answer. A This is the first I've seen it. Q 218 is a March 16, 1998 letter to John O'Shaughnessy, correct? A Yes. Q John O'Shaughnessey is the same lawyer that was copied on all these emails we went through this morning, right? A His name was on a lot of them, yes. Q And he knew when you were answering Interrogatories in the crush case. He was part of that process, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was? A No. Q Do you know who Dr. Gowdy was? A No. Q Do you see where it talks about trace amounts of the tremolite being found and that this was nothing new in that it was found by both McCrone and Bill Ashton? A Yes, I see that. The levels are extremely low. Q This information was not provided to you when you swore under oath in interrogatory answers that tremolite was never found in any of the sources for Johnson's Baby Powder, correct? MS. O'CONNOR: Objection Mischaracterization. You may answer. A This is the first I've seen it. Q Do you know who Alice Blount is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are well below those specified by OSHA." Do you see that? A Yes. Q First time you ever heard this? MS. O'CONNOR: Objection to the form. You can answer. A This is the first I've seen it. Q 218 is a March 16, 1998 letter to John O'Shaughnessy, correct? A Yes. Q John O'Shaughnessey is the same lawyer that was copied on all these emails we went through this morning, right? A His name was on a lot of them, yes. Q And he knew when you were answering Interrogatories in the crush case. He was part of that process, correct? A To the best of my knowledge, he was the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was? A No. Q Do you know who Dr. Gowdy was? A No. Q Do you see where it talks about trace amounts of the tremolite being found and that this was nothing new in that it was found by both McCrone and Bill Ashton? A Yes, I see that. The levels are extremely low. Q This information was not provided to you when you swore under oath in interrogatory answers that tremolite was never found in any of the sources for Johnson's Baby Powder, correct? MS. O'CONNOR: Objection Mischaracterization. You may answer. A This is the first I've seen it. Q Do you know who Alice Blount is? A No.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are well below those specified by OSHA." Do you see that? A Yes. Q First time you ever heard this? MS. O'CONNOR: Objection to the form. You can answer. A This is the first I've seen it. Q 218 is a March 16, 1998 letter to John O'Shaughnessy, correct? A Yes. Q John O'Shaughnessey is the same lawyer that was copied on all these emails we went through this morning, right? A His name was on a lot of them, yes. Q And he knew when you were answering Interrogatories in the crush case. He was part of that process, correct? A To the best of my knowledge, he was the lawyer, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A This the first I've seen this. Q Look at tab 26. It is all in there. We can just go by those and make your life easier. 26 is a memo from the desk of Mr. Nashed. Do you know who he was? A No. Q Do you know who Dr. Gowdy was? A No. Q Do you see where it talks about trace amounts of the tremolite being found and that this was nothing new in that it was found by both McCrone and Bill Ashton? A Yes, I see that. The levels are extremely low. Q This information was not provided to you when you swore under oath in interrogatory answers that tremolite was never found in any of the sources for Johnson's Baby Powder, correct? MS. O'CONNOR: Objection Mischaracterization. You may answer. A This is the first I've seen it. Q Do you know who Alice Blount is?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Then she goes on to say, "as I told you, I believe that Johnson and Johnson's Vermont talc contains trace amounts of asbestos which are well below those specified by OSHA." Do you see that? A Yes. Q First time you ever heard this? MS. O'CONNOR: Objection to the form. You can answer. A This is the first I've seen it. Q 218 is a March 16, 1998 letter to John O'Shaughnessy, correct? A Yes. Q John O'Shaughnessey is the same lawyer that was copied on all these emails we went through this morning, right? A His name was on a lot of them, yes. Q And he knew when you were answering Interrogatories in the crush case. He was part of that process, correct? A To the best of my knowledge, he was the

	Page 145		Page 147
1	lawyers at Mahaffey and Weber to Mr. O'Shaughnessy	1	This document is absolutely
2	concerning the company's Coker case. Do you see	2	inconsistent with that representation, is it not?
3	that?	3	MS. O'CONNOR: Objection to the form.
4	A I would have to read all this.	4	Argumentative, vague, ambiguous. You can answer.
5	Q It is important so why don't you take a	5	A This is the first I heard of this Dr.
6	second and look at it.	6	
7		7	Blount. First I've seen this, so I can't comment on
	Bates number on that last page 64591		it.
8	and 65492. Now, this letter to Mr O'Shaughnessy	8	Q If you had this information in your
9	states that the lawyers spoke with Alice Blount and	9	possession, would you have signed sworn Answers to
10	the possibility of retaining her as an expert. Do	10	Interrogatories under oath saying that there is no
11	you see that?	11	evidence?
12	A Yes.	12	MS. O'CONNOR: Objection to the form
13	Q She is a geologist and mineralogist who	13	of the question. You are mischaracterizing a
14	has written extensively on talc and asbestos	14	document she signed.
15	contamination in commercial talc preparations,	15	Q Let me ask you this. Would you have told
16	correct?	16	patients, doctors, the media outlet, that there is
17	A That's what it says yes.	17	no evidence whatsoever that Johnson's Baby Powder
18	Q She was a former professor at Rutgers,	18	contained any amounts of asbestos and there never
19	right?	19	was and there never will be, if this information was
20	A That's what it says.	20	you provided to you?
21	Q The next page says she was actually a	21	MS. O'CONNOR: Objection to the form.
22	consultant to Johnson and Johnson, right?	22	You can answer.
23	A Yes. That's what it says.	23	A I think it is important to read everything
24	Q She said, what they state is, although dr.	24	that it said here and not to take things out of
25	Blount seemed less than ecstatic about the idea of	25	context so that the consumer has the information.
	Page 146		Page 148
	1490 110		rage 140
1	testifying in a legal proceeding, she agreed to	1	Q But you never told consumers about any of
1 2		1 2	
	testifying in a legal proceeding, she agreed to		Q But you never told consumers about any of
2	testifying in a legal proceeding, she agreed to consult in the case if we desired her to do so. But	2	Q But you never told consumers about any of this, right?
2	testifying in a legal proceeding, she agreed to consult in the case if we desired her to do so. But stated that, "In her opinion, commercial talcum	2 3	Q But you never told consumers about any of this, right? MS. O'CONNOR: Objection to the form.
2 3 4	testifying in a legal proceeding, she agreed to consult in the case if we desired her to do so. But stated that, "In her opinion, commercial talcum powder preparations, including Johnson and Johnson's	2 3 4	Q But you never told consumers about any of this, right? MS. O'CONNOR: Objection to the form. A As I stated earlier, this the first I've
2 3 4 5	testifying in a legal proceeding, she agreed to consult in the case if we desired her to do so. But stated that, "In her opinion, commercial talcum powder preparations, including Johnson and Johnson's Baby Powder, contain trace amounts of asbestos." Did	2 3 4 5	Q But you never told consumers about any of this, right? MS. O'CONNOR: Objection to the form. A As I stated earlier, this the first I've hear of this woman and the first I've seen it, so i
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	testifying in a legal proceeding, she agreed to consult in the case if we desired her to do so. But stated that, "In her opinion, commercial talcum powder preparations, including Johnson and Johnson's Baby Powder, contain trace amounts of asbestos." Did I read that correctly? A That's what it says here, correct. Q That's the first time you ever heard that? MS. O'CONNOR: Objection to the form. A I've never seen this before. Q When you swore under oath in the crush case that there was no evidence of asbestos in the Johnson Baby Powder, no one gave you this document or told you anything about Alice Blount, correct? MS. O'CONNOR: Objection to the form of the question. You may answer. A This is the first I've hear of her, but when you go on to read, she talks about it being a well below limits. Q Yes, Ma'am, but what you stated, and I have it here this is what you told everybody from 1981 until the day you left, there is no evidence that Johnson's Baby Powder contained any amounts of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q But you never told consumers about any of this, right? MS. O'CONNOR: Objection to the form. A As I stated earlier, this the first I've hear of this woman and the first I've seen it, so i can't comment. Q Is it shocking to you? MS. O'CONNOR: Objection to the form. Vague, ambiguous. A No. Q It is not shocking to you that you sat with the lawyer for twelve hours in preparation for this deposition and they had this information in their possession, along with everything in that book and they never showed it to you and they let you come in here and testify? That's not shocking to you? MS. O'CONNOR: Objection to the form. Argumentative, inappropriate. Q It is not shocking to you? A It doesn't shock me, no. Q Now, at some point in time you actually took control and possession of all of the toxicology

	Page 149		Page 151
1	A No. That belonged with the toxicology	1	they related to the toxicology of talc and corn
2	department.	2	starch? Did you disclose any of these files?
3	MS. O'CONNOR: Wait for a question.	3	MS. O'CONNOR: Objection to the form.
4	Q Did you ever review the toxicology file	4	Mischaraterizes the document. Vague, ambiguous.
5	related to talc in Johnson's Baby Powder?	5	A No. As I stated earlier, I didn't
6	A No, I did not.	6	physically handle the studies.
7	Q Who is Steve Mann?	7	Q Although you were the point person that's
8	A One of the toxicologists.	8	what you told us, so all those when you were the
9	Q Who is Rachel Grossman?	9	point person, none of this information was
10	A One of the medical directors.	10	ultimately turned over in the crush case, was it?
11	Q Medical directors of who?	11	MS. O'CONNOR; Objection to the form.
12	A Medical director of Johnson and Johnson	12	Calls for speculation.
13	Consumer Products.	13	A No, I didn't say that. The point person
14	Q Let me show you 390. 390 is a January 7,	14	was ensuring that the correct and appropriate person
15	2002 email from Stephen Mann that mentions you,	15	was answering the questions.
16	correct?	16	Q To your knowledge this information was
17	A My name is here, yes.	17	never identified by you and turned over in the Krushinski
18	Q And the first email in the string is from	18	case, correct?
19	you, correct? January 2, 2002.	19	MS. O'CONNOR: Objection to the form.
20	A Yes.	20	A As I said, I didn't handle any copies of
21	Q You sent that email to the medical	21	studies or anything.
22	director and one of the head toxicologists at	22	Q The follow up email says that the boxes
23	Johnson and Johnson, correct?	23	were taken from you and placed near Paul Sterchele.
24	A Yes One of the toxicologists, yes.	24	Who is Paul Sterchele?
25	Q And you write, "Steve, Mike Chudkowski	25	A A toxicologist.
			5
	Page 150		Page 152
1	left all of the talc corn starch slash CPSC files."	1	Q And Mann says that he also has five
2	What does that mean?	2	binders that Mike Chudkowski left that are in his
3	A Consumer Products. I'm not sure of the	3	office, correct?
4	other.	4	A That's what it says.
5	Q "In my office when he retired. These	5	Q And were those binders ever turned over in
6	approximately five boxes, all seem to be full of	6	the course of litigation up to this point?
7	toxicology data." Do you see that?	7	MS. O'CONNOR: Objection to the form.
8	A I do.	8	Calls for speculation, calls for a legal conclusion,
9	Q How did you know they were full of	9	ambiguous, vague.
10	toxicology data?	10	A I don't know what specifically was given
11	A They seemed to be full.	11	lawyer to lawyer.
12	Q Did you look in the boxes?	12	Q Did you ever identify, as the point
13	A I looked in the boxes. I don't remember	13	person, binders related to talc that were in Mike
14	doing this, but I'm sure I gave it a cursory look.	14	Chudkowski's office when you were responding to
15	Q Once you had this information in your	15	helping to respond to discovery in the talc related
16	possession, did you ever actually look at it before	16	lawsuits?
17	you continued to tell consumers, doctors, media	17	MS. O'CONNOR: Again, mischaracterizes
18	people that Johnson's Baby Powder is perfectly safe?	18	the testimony.
19	MS. O'CONNOR: Objection to the form.	19	MR. PLACITELLA: I'm asking a
20	Compound, vague and ambiguous	20	question. I'm not mischaracterizing.
21	A I don't remember. These were apparently	21	MS. O'CONNOR: You are. You are
22	kept in my office and I passed them on to	22	building into your question a characterization of
23	toxicology.	23	her testimony that she told you she wasn't. But you
24	Q Did you disclose any of these files when	24	can continue to do it and I'll continue to object.
25	you were the point person in the crush case, since	25	Q Let me ask the question differently. I

	Page 153		Page 155
1	don't want your lawyer to get mad at me.	1	part of your responsibility never to misrepresent to
2	Q Before when you were answering discovery	2	the public who you were and who you worked for?
3	responses, and swearing under oath as to the	3	MS. O'CONNOR: Objection to the form
4	accuracy of those responses, were you aware of the	4	of the question. You can answer.
5	binders referenced in this email?	5	A Could you rephrase that?
6	MS. O'CONNOR: Objection to the form.	6	Q In other words, when you were talking to
7	Vague, ambiguous, compound. You can answer.	7	the public or to the media, you would not
8	A I can't remember whether I was aware of	8	misrepresent who you were and who you worked for,
9	them. They were certainly toxicology information.	9	correct?
10	It is up to the toxicologist. I don't know that I	10	MS. O'CONNOR: Objection to the form.
11	knew they had it or not.	11	You can answer.
12	Q Were you aware that there was a whole file	12	A When I spoke to the consumers I identified
13	on five boxes of toxicology information at the time	13	myself and the same thing with the media, yes.
14	you swore under oath in the Krushinski case?	14	Q It would be contrary to the business
15	MS.O'CONNOR: Objection to the form.	15	ethics followed by Johnson and Johnson for you to
16	You may answer it.	16	misrepresent yourself to the media in terms of who
17	A I don't know that I knew there were five	17	you were, correct?
18	boxes or ten boxes. I knew every department had	18	MS. O'CONNOR: Objection to the form
19	information.	19	of the question, you can answer.
20	Q Do you know what ultimately happened to	20	A Whenever there was a media question, I
21	this information, these boxes and the binders?	21	would identify myself, yes.
22	A They are in the toxicology department.	22	Q So when you were dealing with the issue of
23	Q That's where you would expect them to be?	23	asbestos in the Johnson and Johnson tale, why would
24	A If they were toxicology reports, yes.	24	you misrepresent yourself to radio stations as to
25	Q Because by this time there was definitely	25	whether or not you worked for Johnson and Johnson?
	Page 154		Page 156
1	-	1	
1	a litigation hold and they weren't allowed to get		
2	mid of thom might?		Why would you do that?
2	rid of them, right?	2	MS. O'CONNOR: Objection to the form
3	MS. O'CONNOR: Objection to the form.	2 3	MS. O'CONNOR: Objection to the form of the question. You can answer.
3 4	MS. O'CONNOR: Objection to the form. Calls for a legal conclusion. You can answer.	2 3 4	MS. O'CONNOR: Objection to the form of the question. You can answer. A I don't remember that I did.
3 4 5	MS. O'CONNOR: Objection to the form. Calls for a legal conclusion. You can answer. A I don't know if there was a hold at this	2 3 4 5	MS. O'CONNOR: Objection to the form of the question. You can answer. A I don't remember that I did. Q That would have been totally wrong to do,
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1	MS. O'CONNOR: Objection to the form.	1	A I don't remember her name.
2	Compound, vague, ambiguous. You can answer.	2	Q It says CPCUS, that means she worked
3	A Would you reask that again? There's a lot	3	within the same division you did, right?
4	in there.	4	A Means she worked for consumer products.
5	Q This memo we marked before, 358, that you	5	Q That's what you worked for?
6	sent to everybody in the company on January 2, 1986,	6	A Yes. There were a lot of people.
7	about your conversations and your reassurance that	7	Q What about Frederick Tewell, T E W E L L?
8	Johnson's Baby Powder doesn't contain asbestos.	8	A I don't remember that name.
9	A Which document?	9	Q Here Todd True writes to Frederick Tewell
10	Q 358. I put it up there. Do you remember	10	and a copy goes to Christina Geist who is part of
11	this?	11	the global strategic design office for Johnson and
12	A Yes.	12	Johnson, correct?
13	Q You told everybody at Johnson and Johnson	13	A That's what her signature says.
14	that you called the radio station and identified	14	Q And what True says is, "The reality that
15	yourself as a consumer and asked information	15	talc is unsafe for use on slash around babies is
16	whatever they had on the dangers of baby powder?	16	disturbing. I don't mind selling talc. I just
17	MS. O'CONNOR: Objection to the form	17	don't think we can continue to call it baby powder
18	of the question. You can answer.	18	and keep it in the baby aisle. Have we done any
19	A Yes, that's what it says.	19	research to determine the potential negative impact
20	Q You told that to everybody on the list?	20	to our brand or best for babies strategy by
21	A The distribution list was, yes.	21	maintaining this ingredient. Have we looked at
22	Q You never identified yourself as being	22	replacing talc with cornstarch for our base powder,
23	from Johnson and Johnson, correct?	23	as other brands have? What is the value in
24	A That's what I said.	24	maintaining talc under baby while our competitors
25	Q Who is Todd True?	25	have moved away?"
	Page 158		Page 160
1	A I think he was packaging, but I'm not	1	You weren't aware of this debate
2	sure. I remember the name.	2	going on within Johnson and Johnson while you were
3	Q Did you have any dealings with him?	3	talking about how safe baby powder was?
4	A The name is familiar, but I cannot say	4	MS. O'CONNOR: Objection to the form
5	specifically what he did.	5	of the question. You can answer.
6	Q Do you know what his job was in packaging?	6	A I was not aware of this conversation with
7	A No. That's what I mean. I remember the	7	these people, no.
8	name, but I'm not really sure what he did.	8	Q 383 is an April 18, 2008 email from Todd
9	Q He had a much different perspective on	9	True, subject, powder, to Fred Kobema, who in a
10	whether you should be selling baby powder for use on	10	somebody who worked in your division, correct?
11	babies than you did. Am I correct?	11	A I believe he worked in quality assurance.
12	MS. O'CONNOR: Objection to the form.	12	Q He says, "Todd, I can give you the powder
13	A Again, I remember the name, but I don't	13	background that I know. Lorena Telofski in R and D
14	remember him or anything about him.	14	or Michael are the best Johnson historians. But
15	Q Did you ever know that while you were	15	Tammy would be the best person to address the
16	working at Johnson and Johnson there was this raging	16	questions that you pose." Do you know who Tammy is?
17	internal debate about whether you should be selling	17	A No.
18	baby powder at all to babies?	18	Q He states that, "My understanding is that
19	MS. O'CONNOR: Objection to the form.	19	we introduced the cornstarch variant as an
20	Q For use on babies. Obviously, babies	20	alternate for talc for use on babies due to the talc
21	aren't buying it.	21	issue and some and doctors recommending for moms
22	A There was no raging debate.	22	not to use powder on their babies, we don't promote
23	Q 382. I think we talked about this before.	23	powder to moms." Is that true?
24	This is a memo involving Christina Geist and she	24	MS. O'CONNOR: Objection to the form.
25	worked in your department, right?	25	You can answer.
		1	

	Page 161		Page 163
1	A No, and I don't know Fred wrote this.	1	rid of talc.
2	I don't know where that came from.	2	Q Who is Christopher Hacker?
3	Q Do you know what he is talking about, the	3	A Again, I remember the name, but I don't
4	talc issue and doctors recommending to moms not to	4	remember specifically what his department or
5	use it? Were you aware of that as a somebody	5	responsibilities were.
6	actually in charge of responding to these kind of	6	Q What about Michael Rosolowsky? Did we go
7	inquiries?	7	over that one?
8	A Yes. I was aware some physicians feel	8	A Mike was market research.
9	that way, yes.	9	Q I have up here on the screen 384, which
10	Q Did you know that inside Johnson and	10	starts with an email from Todd True to Christopher
11	Johnson the discussion was that the talc was not	11	Hacker and says that looks like Todd True
12	being sold to mothers?	12	actually works in your division, CPCUS, right?
13	MS. O'CONNOR: Objection. You can	13	A That means he worked for Consumer
14	answer. Vague and ambiguous.	14	Products. There's many different departments in
15	A These are just the words that Fred says.	15	Consumer Products. I didn't know everyone.
16	Not being it is widespread.	16	Q Hacker worked for JJCUS. What is that?
17	Q Is there any reason to disbelieve or do	17	A I don't know exactly what the initials
18	you have any issues with the voracity with which he	18	would stand for.
19	speaks on a regular basis? He must have gotten it	19	Q Rosolowsky worked in your department,
20	from somewhere the idea that because of the talc	20	according to this?
21	issue, you weren't marketing baby powder for use on	21	MS. O'CONNOR: Objection to the form.
22	babes, right? Where did he get that from?	22	A He worked for consumer products.
23	A Well, it is not true, so I don't know what	23	Q You worked for consumer products, too,
24	made him say this. I can't speculate on this.	24	right?
25	Q Now we have two people that disagree with	25	A Yes, along with a lot of other people.
	Page 162		Page 164
1	you about whether babies, the talc should be used	1	Q What is stated here is, "I want to give
2	around babies. We have the person dealing with the	2	you a heads up that I am on a bit of a mission to
3	packaging and we have somebody directly in your	3	strongly consider moving talc from the baby aisle.
4	department, right?	4	I sent notes to Paul Serbiak and Fred Tewell as well
5	MS. O'CONNOR: Objection to the form	5	as one to Fred K below. Who is Paul Serbiak?
6	of the question. You can answer.	6	A Paul was the head of the R and D
7	A I don't interpret this as Fred saying he	7	department.
8	doesn't agree. He is talking about there are some	8	Q So he was head of R and D and he was also
9	doctors out there. He is not giving his personal	9	privy to the mission to remove talc entirely from
10	opinion.	10	the baby aisle, right?
11	Q What he is saying is he understands that	11	MS. O'CONNOR: Objection. Calls for
12	you are using corn starch instead and that you are	12	speculation. You can answer.
13	not marketing baby powder for babies anymore and he	13	Q According to this.
14	worked in your same department.	14	A According to this email, he was privy to
15	MS. O'CONNOR: Objection to the form.	15	one person's opinion.
16	You can answer.	16	Q Then they state on the bottom, "I
17	A Again, I don't know the background for	17	understand this is a 70 million dollar business in
18	Fred saying this.	18	the U.S. alone unsupported. So any changes are
19	Q Did you know it was the mission of people	19	risky. However, given a number of other ingredient
20	at Johnson and Johnson to get talc, while you were	20	issues we are facing, this seems like an easy fix
21	out there promoting it, to get talc removed entirely	21	and win. I know this will be controversial and will
22	from the supermarkets in the baby aisle?	22	need to work hard to justify the cost implications.
23	MS. O'CONNOR; Objection to the form.	23	I also see great positives associated with it in our
24	Mischaracterizes the testimony. You can answer.	24	challenge to maintain mom's trust and deliver on our
25	A Not true. There was not a mission to get	25	baby expertise." I read that correct?

	Page 165		Page 167
1	A Yes. That's what it says.	1	MS. O'CONNOR: Objection to the form
2	Q None of this information was shared with	2	of the question.
3	you, this debate that was going on about whether	3	A They were well aware of the people that
4	babies should even been around baby powder while you	4	were providing the evidence.
5	were supposed to be the person who was supposed to	5	Q So they were well aware you were hiring
6	be the spokesperson?	6	people let's not go there. That's a whole other
7	MS. O'CONNOR: Objection to the form	7	day.
8	of the question. You can answer.	8	You agree with me that you had a
9	Q Is that right?	9	standby statement ready to go to pull the Johnson's
10	A I've seen of this email.	10	Baby Powder with talc from the market if you lost
11	Q Do you remember back in 2000 when there	11	the battle before the National Toxicology Project,
12	was an issue about whether the talc itself without	12	right?
13	asbestos was going to be classified as a human	13	MS. O'CONNOR: Objection to the form
14	carcinogen by the National Toxicology Project? Do	14	If you have a document, show her the document.
15	you recall that?	15	MR. PLACITELLA: I'm asking her what
16	A Yes.	16	she knows.
17	Q Did anyone ever tell you that Johnson and	17	A In the normal course of business it was
18	Johnson had a standby statement ready to go from a	18	proven to have something ready.
19	PR respective that if somebody determined that the	19	Q Let me show you 411. 411 is a November 9
20	tale was carcinogenic they were ready to switch to	20	2000 memo from Kate Triggs. Do you know who Kate
21	cornstarch on a moment's notice? Did you know	21	Triggs is?
22	that?	22	A No.
23	MS. O'CONNOR: Objection to the form.	23	Q How about Sarah Colamarino?
24	Misstates the evidence, ambiguous.	24	A Yes. She was director of communications.
25	A Part of our process would be if the NTP	25	Q What does that mean, director of
25	A Tait of our process would be if the 1411	25	What does that mean, director of
	Page 166		Page 168
1	determined the ingredient was carcinogenic, as a	1	communications?
2	company we would do the responsible thing and have a	2	A She would be responsible for the ultimate
3	response.	3	overall communications of any issue that had to be
4	Q So that was pretty highstakes stuff,	4	communicated.
5	because if the NTP found there was any carcinogens	5	Q If you look at the last page it states
6	in the Johnson's Baby Powder, you would have pulled	6	Johnson and Johnson Consumer NTP Tale Draft Holding
7	the product from the market right then and there,	7	Statement. It starts out, "Johnson and Johnson
8	right?	8	intends to discontinue its use of talc in all of its
9	A The important thing is they did not find	9	consumer products in the U.S. beginning December 1,
10	it to be a carcinogen.	10	2000. The company's U.S. manufacturing operations
11	Q That's because you leaned on them really	11	will switch to cornstarch."
12	hard. We will do that on another day, and you got	12	Did I read that correctly?
13	them to change your vote, right?	13	A That's what it says, yes.
14	A That's not correct.	14	Q That never happened, right?
15	Q You didn't get them to change the vote	15	A No, because the NTP did not determine talc
16	from like 13 to 2 to something different? That	16	to be a carcinogen.
17	never happened?	17	Q We will do that on another day.
18	MS. O'CONNOR: Objection to the form.	18	MS. O'CONNOR: Objection to the
19	A The NTP is made up of all different kinds	19	colloquy.
20	of scientists, government agencies as well as	20	MR. PLACITELLA: I want to finish
21	independent toxicologists and they made their	21	this part today.
22	decision based on the science.	22	Q At some point in time you became involved
23	Q They also made their decision based on	23	in what kind of warnings or caution statements
24	people that you hired that you never told them were	24	should be used on Johnson's Baby Powder products,
1			*
25	representing you, right?	25	correct?

	Page 169		Page 171
1	A Correct.	1	of the question.
2	Q And you became involved, but you had no	2	A What was the question?
3	formal training in this regard and no expertise in	3	Q You created a package that resembled in
4	this regard, correct?	4	form a baby bottle.
5	MS. O'CONNOR: Objection to the form.	5	A Baby bottles come in all sizes and shapes
6	You can answer.	6	and colors. It does not look like a baby bottle.
7	A I was involved as a member of the team.	7	Q You are not aware of any information
8	Q To your knowledge has the use of Johnson	8	within Johnson and Johnson where there was a
9	Baby Powder ever resulted in the death of any human	9	discussion about the packaging reassembling a baby
10	being?	10	bottle?
11	MS. O'CONNOR: Objection to the form	11	MS. O'CONNOR: Objection to the form
12	of the question. You can answer.	12	of the question.
13	A To my knowledge, no.	13	A Yes, I'm aware there was an allegation
14	Q Was the risk of asphyxiation to babies who	14	that it did.
15	were exposed to Johnson's Baby Powder known within	15	Q You said there was allegations about
16	Johnson and Johnson?	16	packaging for the baby powder reassembling a baby
17	MS. O'CONNOR: Objection to the form	17	bottle. What did you mean by that?
18	of the question. You can answer.	18	A I remember I don't remember where it
19	A Like we talked about earlier, normal use	19	came from. I remember it was early. Probably in
20	of the product is fine. It is safe to use.	20	the '80s, but there was an allegation that because
21	We took very seriously we had a	20	
22	responsibilities to address the use, misuse and the	22	of that, babies would grab it. Babies grab
		23	anything.
23 24	abuse of a product.	23	Q Did the allegation originate outside the
25	Q Let me ask the question. Was the risk of	l	company or inside the company?
25	asphyxiation to babies who were exposed to Johnson	25	A Outside the company.
	Page 170		Page 172
1	and Johnson Baby Powder known within Johnson and	1	Q What was done in response to that concern?
2	Johnson?	2	A Well, like any concern that comes in, as I
3	MS. O'CONNOR: Objection to the form	3	said, we take things very seriously and look at
4	of the question. You can answer.	4	this. But knowing the behavior of babies, as I
5	A With the normal use of the product, no.	5	said, they will grab anything.
6	Q You say normal use. What does that mean?	6	We advise parents to keep the baby
7	A Used in a diapering situation, applying it	7	powder and all products out of reach of babies.
8	to the hand and then the body. Not giving it to a	8	Q But it was not unforeseeable that babies
9	child to play with.	9	would grab the bottle of baby powder, correct?
10	Q But you knew that could happen?	10	MS. O'CONNOR: Objection to the form.
11	A We advised against it.	11	Vague, ambiguous, calls for a legal conclusion. You
12	Q But you knew that could happen, correct?	12	can answer.
13	MS. O'CONNOR: Objection to the form	13	A Yes. Babies grabbing things, anything.
14	of the question.	14	That is why we advised parents to keep things out of
15	A Yes, because we know babies grab things.	15	their reach.
16	That's why we addressed the situation.	16	Q I'm going to blow up 402. 402 is an email
17	Q And you actually made the product to look	17	from yourself to a bunch of people.
18	like a bottle, right?	18	MS. O'CONNOR: Is this the entirety
19	MS. O'CONNOR: Objection to the form	19	of the document?
20	of the question.	20	MR. PLACITELLA: As far as I know,
21	A No.	21	yes. We will do a piece at a time, so it is bigger.
22	Q You could have put it in big square box,	22	Q It is from yourself to a bunch of people.
23	but you put made it white and put it in a bottle,	23	There's some new people on this. There's a
24	right?	24	Katherine Rockwell. Who is Katherine Rockwell?
25	MS. O'CONNOR: Objection to the form	25	A I don't remember.

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1	Q Who is the CPC copy approval baby?	1	fair to do this right now. If you want to ask the
2	A That's an internal process.	2	witness
3	Q That's just a group, or something?	3	MR. PLACITELLA: It is only one page.
4	A Yes.	4	That's all I got. One page.
5	Q Then you have Lorena Telofski, Michelle	5	Q My question is, do you recall your
6	Turk, Clayton Paterson. Who is Clayton Paterson?	6	recommendation for a warning on baby powder being
7	A He is the regulatory attorney.	7	not approved? You say Kate, not approved at
8	Q Who is Michelle Turk?	8	this time?
9	A Regulatory.	9	MS. O'CONNOR: Objection to the form.
10	Q Who is Scott Beaudry?	10	Q What happened?
11	A R and D.	11	A What I meant was the way it was presented
12	Q Mary Estocin?	12	to me in the system was not approved. So I'm
13	A Marketing.	13	telling them to make sure that it says the
14	Q And Tammy Jones?	14	following.
15	A I don't remember.	15	Q I'm not sure I understand. You say the
16	Q Your email talks about a warning being put	16	way it came to you, not approved. What does that
17	on Johnson's Baby Powder?	17	mean?
18	MS. O'CONNOR: Objection to the form	18	A The copy approval process was a
19	of the question. You can answer. Really hard to do	19	computerized process. And the graphics would come
20	without the document.	20	to us for approval, the team.
21	A I'm talking about labels on both Johnson's	21	I was referring to the number as
22	Baby Oil and Johnson's Baby Powder.	22	written there, and I was saying that was not
23	Q And on the oil you recommended warning	23	approved and I told them what to put on it.
24	I see. On baby powder you recommended a warning,	24	Q And did that happen?
25	correct?	25	A I'm going to assume so. I don't know.
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1	MS. O'CONNOR: Objection to the form.	1	Q Didn't you have to run this by the
2	You can answer.	2	lawyers, and what did the lawyers
3	A Yes.	3	A I wouldn't have approved it personally
4	Q And the warning you recommended was, for	4	without them.
5	baby powder, keep powder away from face to avoid	5	Q Who is Lara Kegley?
6	inhalation which could cause breathing problems.	6	A She managed the approval process.
7	Avoid contact with eyes. For external use only.	7	MR. PLACITELLA: I'll make a copy so
8	Close tightly after use.	8	we have it as part of the record.
9	You say all this should have been bold,	9	Q 385 is an email from yourself to David
10	right?	10	Chase, Katherine Martin, forwarding another email,
	A Correct.	11	
11			correct?
12	Q But that was rejected?	12	A Yes.
12 13	Q But that was rejected? MS. O'CONNOR: Objection to the form.	12 13	A Yes. MS. O'CONNOR: I ask that you not
12 13 14	Q But that was rejected?MS. O'CONNOR: Objection to the form.Q According to this it says not approved at	12 13 14	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it
12 13 14 15	 Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. 	12 13 14 15	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it.
12 13 14 15 16	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need	12 13 14 15 16	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is
12 13 14 15 16	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness.	12 13 14 15 16 17	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted
12 13 14 15 16 17	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it	12 13 14 15 16 17	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different
12 13 14 15 16 17 18	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that?	12 13 14 15 16 17 18 19	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day.
12 13 14 15 16 17 18 19 20	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that? MS. O'CONNOR: We need a hard copy.	12 13 14 15 16 17 18 19 20	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day. Q Involved in this process about what
12 13 14 15 16 17 18 19 20 21	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that? MS. O'CONNOR: We need a hard copy. MR. PLACITELLA: I'll email it to	12 13 14 15 16 17 18 19 20 21	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day. Q Involved in this process about what warnings should go on the product, was yourself and
12 13 14 15 16 17 18 19 20 21 22	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that? MS. O'CONNOR: We need a hard copy. MR. PLACITELLA: I'll email it to you. You can have it printed out. Sorry. I made a	12 13 14 15 16 17 18 19 20 21 22	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day. Q Involved in this process about what warnings should go on the product, was yourself and Todd True, correct?
12 13 14 15 16 17 18 19 20 21 22 23	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that? MS. O'CONNOR: We need a hard copy. MR. PLACITELLA: I'll email it to you. You can have it printed out. Sorry. I made a mistake. There's a lot of documents.	12 13 14 15 16 17 18 19 20 21 22 23	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day. Q Involved in this process about what warnings should go on the product, was yourself and Todd True, correct? A He is copied on the original.
12 13 14 15 16 17 18 19 20 21 22 23 24	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that? MS. O'CONNOR: We need a hard copy. MR. PLACITELLA: I'll email it to you. You can have it printed out. Sorry. I made a mistake. There's a lot of documents. MS. O'CONNOR: I understand. I don't	12 13 14 15 16 17 18 19 20 21 22 23 24	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day. Q Involved in this process about what warnings should go on the product, was yourself and Todd True, correct? A He is copied on the original. Q You obviously interacted with Todd True on
12 13 14 15 16 17 18 19 20 21 22 23	Q But that was rejected? MS. O'CONNOR: Objection to the form. Q According to this it says not approved at this time. MS. O'CONNOR: This is why we need the document. It is unfair to question a witness. MR. PLACITELLA: I'll email name it to you, how is that? MS. O'CONNOR: We need a hard copy. MR. PLACITELLA: I'll email it to you. You can have it printed out. Sorry. I made a mistake. There's a lot of documents.	12 13 14 15 16 17 18 19 20 21 22 23	A Yes. MS. O'CONNOR: I ask that you not question the witness about that and we can take it off line and address it. MR. PLACITELLA: Bates number is 2918, et cetera. I won't ask about the highlighted section, but we may have to deal with it a different day. Q Involved in this process about what warnings should go on the product, was yourself and Todd True, correct? A He is copied on the original.

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1	product?	1	Q And they specifically did not copy you,
2	A We were both copied on this memo.	2	correct?
3	1	3	MS. O'CONNOR: Objection to the form.
4	MR. PLACITELLA: I'll say this. I	4	You can answer.
5	can have information to that effect. It is curious	5	A I'm not copied on this, no.
6	that it would be an issue since there are redactions	6	Q Who is Lee Grace?
7	on the document.	7	A I don't remember.
8	MS. O'CONNOR: I understand. I have	8	Q The objection is stated here. We tried
9	the same thought.	9	initially placing the X over the illustrated baby's
10	MR. PLACITELLA: I don't want to get	10	mouth and nose and it was not optimal. It began to
11	in a bad place.	11	look like the baby was participating in an anti
12	MS. O'CONNOR: I understand. I	12	something demonstration or was about to enter some
13	appreciate that.	13	type of nuclear fallout area. That's why we decided
14	MR. PLACITELLA: Although you have	14	to place it on the cheek instead.
15	just knocked out fifteen minutes of my deposition.	15	A I see that.
16	MS. O'CONNOR: You saved all of us.	16	Q Did anybody ever tell you what was going
17		17	on?
18	Q At one point in time you wanted to	18	MS. O'CONNOR: Objection to the form.
19	actually put an X over the baby's nose and mouth on	19	You can answer.
20	the packaging. Do you recall that?	20	A I'm not copied on this, but I had final
21	A Yes.	21	approval for what went on the label.
22	Q That was met with some resistance. Is	22	Q Some people within the organization really
23	that fair?	23	didn't want that X over the baby's mouth. Is that
24	MS. O'CONNOR: Objection to the form.	24	fair?
25	You can answer.	25	A For the reasons stated here. Looks
	Page 178		Page 180
			1490 100
1	A It was open for discussion. There were a	1	
1 2	A It was open for discussion. There were a lot of things that needed to be on a label and we	1 2	like it, yes.
	A It was open for discussion. There were a lot of things that needed to be on a label and we wanted to make sure that we were addressing		like it, yes. Q That's May 21, 2009, right?
2	lot of things that needed to be on a label and we	2	like it, yes. Q That's May 21, 2009, right?
2	lot of things that needed to be on a label and we wanted to make sure that we were addressing	2 3	like it, yes. Q That's May 21, 2009, right? A That's what it says.
2 3 4	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space.	2 3 4	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you
2 3 4 5	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell?	2 3 4 5	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a
2 3 4 5 6	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember.	2 3 4 5 6	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody
2 3 4 5 6 7	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw?	2 3 4 5 6 7	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't
2 3 4 5 6 7 8	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw? A I don't remember her either.	2 3 4 5 6 7 8	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't know what the size of the particles are that the
2 3 4 5 6 7 8 9	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw? A I don't remember her either. Q Pamela Walsh?	2 3 4 5 6 7 8 9	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't know what the size of the particles are that the baby is going to inhale, right? The very next day.
2 3 4 5 6 7 8 9	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw? A I don't remember her either. Q Pamela Walsh? A Pam Walsh was responsible for the copy	2 3 4 5 6 7 8 9	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't know what the size of the particles are that the baby is going to inhale, right? The very next day. MS. O'CONNOR: Objection to the form of the question. You can answer. A The date does follow, yes.
2 3 4 5 6 7 8 9 10	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw? A I don't remember her either. Q Pamela Walsh? A Pam Walsh was responsible for the copy approval process. Q Christine Geist we talked about. A Yes.	2 3 4 5 6 7 8 9 10	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't know what the size of the particles are that the baby is going to inhale, right? The very next day. MS. O'CONNOR: Objection to the form of the question. You can answer.
2 3 4 5 6 7 8 9 10 11 12	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw? A I don't remember her either. Q Pamela Walsh? A Pam Walsh was responsible for the copy approval process. Q Christine Geist we talked about. A Yes. Q Did you know that once you made this	2 3 4 5 6 7 8 9 10 11 12	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't know what the size of the particles are that the baby is going to inhale, right? The very next day. MS. O'CONNOR: Objection to the form of the question. You can answer. A The date does follow, yes. Q What was Project Oracle? A That was a project to help ensure global
2 3 4 5 6 7 8 9 10 11 12 13	lot of things that needed to be on a label and we wanted to make sure that we were addressing everybody we could with a limited amount of space. Q Who is Steven Bramwell? A I don't remember. Q Diane Brokaw? A I don't remember her either. Q Pamela Walsh? A Pam Walsh was responsible for the copy approval process. Q Christine Geist we talked about. A Yes. Q Did you know that once you made this recommendation there were private meetings within	2 3 4 5 6 7 8 9 10 11 12 13 14 15	like it, yes. Q That's May 21, 2009, right? A That's what it says. Q And then the very next day, I gave you 392, the very next day is when there was a discussion with the Vice-President, legal, everybody else was up there in your division about we don't know what the size of the particles are that the baby is going to inhale, right? The very next day. MS. O'CONNOR: Objection to the form of the question. You can answer. A The date does follow, yes. Q What was Project Oracle? A That was a project to help ensure global safety labeling.
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	Page 181		Page 183
1	Q Did you know that in certain parts of the	1	the warnings were the same throughout the world as
2	world Johnson and Johnson was warning its own	2	it related to baby powder, correct?
3	employees about the risk of cancer from exposure to	3	A No, because this doesn't pertain to the
4	tale that had asbestos that was used for baby	4	normal use of the product.
5	powder?	5	Q It pertains to the people who were filling
6	MS. O'CONNOR: Objection to the form	6	the product with the baby powder, doesn't it?
7	of the question.	7	MS. O'CONNOR: Objection to the form.
8	A No, we don't believe that there was a	8	A It seems to, yes.
9	danger to develop cancer using Johnson's Baby	9	Q Now, here is 397. 397 starts at the top.
10	Powder.	10	It is an email from Charles Wajszczuk. How do you
11	Q I'll show you 317. 317 is product	11	say that correctly?
12	material safety data sheet for Johnson's Baby Powder	12	A You won't. We never got it right. We
13	Blossom. Do you see that? I believe this was used	13	called him Dr. Charles.
14	actually in Singapore, but came out of something	14	Q Okay, Dr. Charles. An email from Dr.
15	known as a Johnson's Fact Book. Do you know what a	15	Charles to yourself and a number of other people.
16	fact book is?	16	Do you see that?
17	A Yes.	17	A Yes.
18	Q What is a fact book?	18	Q I want to work backwards and understand
19	A A fact book is an R and D document that	19	something. If I go to the last page, there's an
20	has the information on products.	20	email from Kyle Schadler. Do you know who that is?
21	Q In this document, if you go to the Bates	21	A No.
22	number ending 601, the top is entitled Johnson's	22	Q To a Miriam Martinez. Who is Miriam
23	Baby Blossom Powder. Do you see that?	23	Martinez?
24	A Yes.	24	A I don't know.
25	Q Do you see down at the bottom under	25	Q It talks about a consumer who had ovarian
	Page 182		Page 184
1	toxicity and irritation. Under carcinogen, talc	1	cancer in her family and she is asking questions
2	containing asbestiform fibers, see asbestos?	2	cancer in her family and she is asking questions about talc. Is that fair?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	containing asbestiform fibers, see asbestos? A I see it says that, yes. Q Did you know that people who were involved at Johnson's Baby Powder in other parts of the world were being warned about the cancer risk from tale that contained asbestos? MS. O'CONNOR: Objection to the form of the question. A I don't know how to interpret the way this information is given. Underneath it says tale not containing asbestos. One says containing and one says it doesn't. I think I don't know how to interpret this. Q So clearly Johnson and Johnson recognizes if the tale contains asbestos, it could cause cancer, right? MS. O'CONNOR: Objection to the form. You can answer. Q That's what it says on there own material safety data sheet. MS. O'CONNOR: Objection. A I don't know how to interpret this.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	cancer in her family and she is asking questions about talc. Is that fair? A That's what it seems to be, yes. Q And on the page above that there's a memo from Miriam Martinez to yourself? A Where? Q Just go A Yes. Q The first is the memo from you and it says, "There's nothing additional to add to this information. The study and analysis of the literature was done on talc, not a specific product. You may want to give her dates of reports and suggest she discuss with her doctor. I do not have readily available copy." What reports and literature are you talking about? A I don't remember. Q Miriam Martinez is who? A I don't know. Q Mark Demu. Do you know who that is? A No. Q The response back is "Nancy, I agree with you. This information can answer any concern

	Page 185		Page 187
1	is why talc is still used in this product and was	1	should still be on the market or not?
2	removed from all of the J and J baby products." Do	2	A No.
3	you see that?	3	Q After this issue was raised, and it was
4	A I see that here, yes.	4	the discussed with the medical safety officer
5	Q Then if you go to Bates number 1285, they	5	director, there was no discussion within Johnson and
6	talk about, or you say that you suggest that Dr.	6	Johnson about whether it was time to take the baby
7	Charles, Charlie, that is Dr. Charles?	7	powder with talc off the market?
8	A Correct.	8	MS. O'CONNOR: Objection to the form
9	Q Respond in writing, right?	9	of the question. You can answer it.
10	A Correct.	10	A No. Not that I know of, no.
11	Q And then we can go to the front page, the	11	Q Do you know who James Mulieri,
12	very first page.	12	MULIERIis?
13	A On October 5, 2011, you write to a couple	13	A He was part of the call center.
14	of people and you say, "As manager of product safety	14	Q Diana Boghicev, B O G H I C E V?
15	and education, I apologize if this issue has been	15	A No.
16	going around and around and around. I'm not sure	16	Q Sandra Cerrea, C E R R E A?
17	why the call center or Dr. Wajszczuk cannot respond	17	A No.
18	to this consumer writing. However, if Dr. Wajszczuk	18	Q Joseph Greco, G R E C O?
19	feels he cannot answer it," you don't think you	19	A Research and development.
20	should be the one to answer it, right?	20	Q Dawn Miles. Who is that?
21	A Correct.	21	A Marketing.
22	Q That's not your job?	22	Q David Mays?
23	A At that time, 2011, it was not my job to	23	A Director of the Global Scientific and
24	speak directly to consumers.	24	Professional Engagement.
25	Q Whose job was it?	25	Q Vicky Cox Vogt?
	Page 186		Page 188
1	A The call center or the doctor.	1	A R and D.
2	Q The doctor then says to you, "It is not my	2	Q Am I correct that as far as you are aware,
3	job either. That's not a medical question or a	3	the warnings on baby powder never mentioned anything
4	scientific question. That's a business PR	4	about the hazard presented by the product being
5	question." Right?	5	aerosolized in normal application?
6	A That's what he says.	6	MS. O'CONNOR: Objection to the form.
7	Q According to the doctor, the issue about	7	You can answer.
8	whether talcum products should still be on the	8	A No, we didn't use those words. We talked
9	market is not one for him, it is for the business	9	about the safe way to use the product.
10	people, right?	10	Q The warning never talked about peroneal
11	MS. O'CONNOR: Objection to the form.	11	use of the product near the vagina?
12	You can answer the question.	12	A No.
13	A I just know what it says here.	13	Q The warning never said anything about
14	Q That's the import of what the doctor says.	14	cancer, correct?
15	He is the senior director, medical safety officer,	15	A Correct.
16	correct?	16	Q Never said anything about asbestos?
17	A That's the title, yes.	17	A Correct.
18	Q He is saying don't ask me, ask the	18	Q Never said anything about heavy metals?
19	business people. I can't answer that question.	19	A Correct.
20	MS. O'CONNOR: Objection to the	20	Q Never said anything about risks to adults?
21	form. You can answer.	21	MS. O'CONNOR: Objection to the form.
22	A He didn't feel he was the appropriate	22	You can answer.
23	person to answer this.	23	A Not specifically to adults, no.
24	Q Did you ever have a conversation with the	24	Q Did it ever say anything about a risk of
25	doctor about his opinions about whether the product	25	serious injury?

	Page 189		Page 191
1	A If used incorrectly, yes.	1	A Yes.
2	Q What is that?	2	Q 11:56 p m. Really?
3	A It could cause breathing issues.	3	A I'm a night person.
4	MR. PLACITELLA: I think this is a	4	Q It is to a whole bunch of people, right?
5	good place a break.	5	A Yes.
6	THE VIDEOGRAPHER: The time is now	6	Q And it talks about a meeting, the talc
7	4:05 p.m. We are going off the record.	7	meeting that is going to occur on 4-30-01. Do you
8		8	see that?
9	THE VIDEOGRAPHER: The time is now	9	A Yes.
10	4:21 p.m. We are back on the record.	10	Q You attached the latest information
11	•	11	received from the National Toxicology Project,
12	Q I just want to go back and spend a few	12	correct?
13	minutes on this, since you brought it up. Your role	13	A Yes.
14	for Johnson and Johnson, as it related to the issue	14	Q On the next page, like the fifth
15	with the National Toxicology Project, was what	15	photograph down, I'll blow it up, the statement is
16	specifically?	16	made, "The presence of talc on the list ends years
17	A Probably more of a project manager	17	of controversy. Many people have believed for
18	facilitator.	18	decades that talc powder results in increased cancer
19	Q What does that mean?	19	risk, and studies are confirmed this connection.
20	A Ensuring that the right people were in the	20	Studies have shown increased incidents of alveolar
21	room, that any documents that we discussed that were	21	bronchiolar carcinomas of the lung in female rats.
22	needed would be addressed. That we were all on the	22	Recently published epidemiology studies suggest talc
23	same page, I guess.	23	exposure among pottery workers associated with lung
24	Q Who way the person in charge of making	24	and ovarian cancer in woman." Do you see that?
25	sure that all of the information that would tell the	25	A Yes, I do.
	Page 190		Page 192
1	whole story would be communicated to the federal	1	Q What you state is that, "The latest report
2	government and in the National Toxicology Program?	2	should be a topic of discussion." Correct?
3	MS. O'CONNOR: Objection to the form	3	A That is what I said, yes.
4	of the question.	4	Q "Mike Chudkowski will have some comments
5	Q Who was person at Johnson and Johnson?	5	on this as well as from the perspective from the
6	MS. O'CONNOR: Objection to the form	6	CPFA" Did you have a role as it related to the CPFA
7	of the question. You can answer.	7	within Johnson and Johnson?
8	A That communicator would be Helen Han Hsu,	8	A No. That was toxicology.
9	who was the toxicologist.	9	Q You were totally out of it?
10	Q So she would be the one to make sure all	10	A Yes.
	- f 4l d 4 - 4l d d 4l l d	11	
11	of the documents, the good and the bad, were		Q It says, "Mike will also give a status on.
11 12	forwarded to the project, correct?	12	transfer of talc files upon his retirement in June."
11 12 13	forwarded to the project, correct? MS. O'CONNOR: Objection to the form,	12 13	transfer of talc files upon his retirement in June." Do you see that?
11 12 13 14	forwarded to the project, correct? MS. O'CONNOR: Objection to the form, foundation, vague and ambiguous. You can answer.	12 13 14	transfer of talc files upon his retirement in June." Do you see that? A Yes.
11 12 13 14 15	forwarded to the project, correct? MS. O'CONNOR: Objection to the form, foundation, vague and ambiguous. You can answer. A She was the one who would communicate with	12 13 14 15	transfer of talc files upon his retirement in June." Do you see that? A Yes. Q Do you remember anything about that?
11 12 13 14 15	forwarded to the project, correct? MS. O'CONNOR: Objection to the form, foundation, vague and ambiguous. You can answer. A She was the one who would communicate with whoever, the agency itself, or the different people	12 13 14 15 16	transfer of talc files upon his retirement in June." Do you see that? A Yes. Q Do you remember anything about that? A No.
11 12 13 14 15 16	forwarded to the project, correct? MS. O'CONNOR: Objection to the form, foundation, vague and ambiguous. You can answer. A She was the one who would communicate with whoever, the agency itself, or the different people involved.	12 13 14 15 16 17	transfer of talc files upon his retirement in June." Do you see that? A Yes. Q Do you remember anything about that? A No. Q There's another email from you up above
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	Page 193		Page 195
1	Richard Zazenski is?	1	Q Was that consistent with your
2	A No.	2	understanding or you don't know?
3		3	A I'm not familiar, no.
	Q And it is to it says here: Richard Zazenski is from Luzenac, correct?	4	Q He states on the next page, "In early
4	· · · · · · · · · · · · · · · · · · ·		1 5
5	A That is what it says.	5	2000, NTP listed talc for possible listing in the
6	Q Did you know who Luzenac was?	6	ROC because back in the early 1990s, NTP published
7	A I believe they are a talc supplier.	7	the results of a two year talc inhalation study on
8	Q For Johnson's Baby Powder?	8	rats and mice and concluded that talc caused lung
9	A Yes.	9	tumors in female rats." Were you aware of that?
10	Q The email is sent to Michael Chudkowski in	10	A No.
11	your division, correct?	11	Q Go to the next slide. It says, "Now,
12	A He worked for Consumer Products, yes.	12	realistically, there are some health issues with
13	Q He says, the subject is winning hand. Do	13	talc. For near 20 years epidemiologists have been
14	you see that?	14	finding a weak, but persistent statistical link
15	A That's what it says.	15	between the hygienic use of talc and ovarian
16	Q "Mike, Bill. I'll let me you guys read	16	cancer." Were you aware of that?
17	this for now, but it is for your eyes only until we	17	MS. O'CONNOR: Objection to the form.
18	finalize. It is the winning hand in getting talc	18	You can answer.
19	without asbestos dismissed from the NTP nonsense.	19	A There's been a hypothesis that there was a
20	For now, I'll graciously accept one hundred percent	20	lin, yes.
21	of the credit finding CRE, convincing them to get	21	Q No. "A week, but persistent statistical
22	involved and developing the Fatal Flaw Strategy	22	link." Were you aware of that?
23	single handedly saving the talc business from	23	A No.
24	certain ruin." Do you see that?	24	MS. O'CONNOR: Objection to the form.
25	A That's what it says.	25	A Not in those words, no.
	<u> </u>		
	Dama 104		
	Page 194		Page 196
1	Q Do you know what the CRE is?	1	Page 196 Q If you go to page 5, it states at the top
1 2		1 2	
	Q Do you know what the CRE is?		Q If you go to page 5, it states at the top
2	Q Do you know what the CRE is? A No.	2	Q If you go to page 5, it states at the top that, "Talc and asbestos are similar." Were you aware that that was communicated? Let me read the
2 3	Q Do you know what the CRE is?A No.Q Do you know what the Fatal Flaw Strategy	2 3	Q If you go to page 5, it states at the top that, "Talc and asbestos are similar." Were you aware that that was communicated? Let me read the whole thing.
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Page 197 Page 199 1 Q Go to page 7. At the bottom it talks 1 all of the epidemiology studies they previously used 2 about a public meeting and in December the BSC, if 2 must be declared invalid for use in assessing talc 3 3 you go to the next page, the subcommittee voted 7 to not containing asbestos. This will be an expansion 3 not to list the talc. Do you see that? 4 of the Fatal Flaw Defense Luzenac employed in the 4 5 5 first review on talc." Do you see that? A Yes. 6 Q Then he states, "And make no mistake about 6 A Yes, I see that. 7 7 it, they knew if they proceeded with a listing, Q Did you have any understanding that the 8 8 nomination for talc Luzenac America was going to defense, the Fatal Flaw Defense that was 9 challenge them in court." Did you know that? 9 communicated by Luzenac to Johnson and Johnson, was 10 A No. 10 that the talc did not contain asbestos? 11 Q If then it talks about what their 11 MS. O'CONNOR: Objection to the form 12 12 successful strategy was. On slide 6 he says, "Our of the question. You can answers. 13 A I was not familiar with the Fatal Flaw successful defense strategy was three fold. First, 13 14 to continue to work through the auspices of the 14 Defense. 15 CPFA, the Washington based trade association for the 15 Q So you were not familiar with the fact 16 cosmetics industry. As you might imaging Luzenac 16 that are the whole premise before the National and Johnson and Johnson wield considerable influence 17 Toxicology Project, or one of the premises in not 17 on the talc subcommittee." Were you aware of that? 18 18 having talc declared a carcinogen was the 19 A No. 19 representations that were made that the talc that 20 Q Then he says, "Secondly, and this was our 20 was used in baby powder never contained asbestos. secret weapon. Engage the services of a Washington You didn't know that? 21 21 Based Center for Regulatory Effectiveness, the CRE." 22 MS. O'CONNOR: Objection to the form 22 23 Do you see that? 23 of the question. Compound, vague and ambiguous. 24 A Yes. 24 You may answer. 25 Q Does that refresh your recollection as to 25 A Could you rephrase the question? Page 198 Page 200 who the CRE was? 1 Q Did you know that one of the ways that 1 2 A I see what it stands for. 2 Johnson and Johnson and Luzenac were fighting the 3 Q Did you know that they were secretly 3 talc issue before the National Toxicology Project engaged in order to fight talc and cancer before the 4 was by taking the position that the talc used in 4 5 5 National Toxicology Project? Johnson's Baby Powder never contained asbestos? 6 MS. O'CONNOR: Objection to the form. 6 MS. O'CONNOR: Same objections. You 7 7 You can answer. may answer. A I don't know they were secretly engaged. 8 8 A I know there were discussions about 9 Q Do you know whether they eve -- I'm 9 industrial type of talc and cosmetic talc, and the 10 assuming you don't know that they never disclosed 10 efforts were to concentrate on cosmetic talc, which who they were representing before the national is found in Johnson's Baby Powder. 11 11 Toxicology Project? 12 12 Q My question to you was, did you know that A I don't know that. 13 one of the primary bases for battling the issue of 13 14 Q He states at the bottom, "We send emails, 14 talc before the National Toxicology Project was the faxes, overnight letters and even telephone calls to 15 position asserted that there was never any evidence 15 keep players in the battle right up until the hours 16 16 of asbestos in the talc used in Johnson's Baby 17 before the final executive committee meeting." Did 17 Powder? you know that? 18 MS. O'CONNOR: Objection to the form 18 19 19 A No. of the question. 20 Q Do you know what role Johnson and Johnson 20 Q I'm just asking if you know. It is not 21 played in that effort? 21 for a fight. A No. 22 22 MS. O'CONNOR: It is a hard question 23 Q He talks about on the next page. "One of 23 to follow. You can answer. the issues we plan to focus on is demonstrating to 24 24 A Well, the basis was that there's no 25 the NTP, National Toxicology Project, that virtually 25 asbestos in the talc used in Johnson's Baby Powder.

	Page 201		Page 203
1	Q So you knew that's what was being asserted	1	Musco-4.)
2	before the National Toxicology Project?	2	1114560 11.)
3	A The question about the NTP was whether it	3	Q We mentioned a lot of names during the
4	was a carcinogen. That's what the discussions were.	4	course of the deposition. I asked Leah, as we were
5	Q Did you know Johnson and Johnson, or do	5	going through, to write down the name and what the
6	you know whether or not Johnson and Johnson took the	6	person did, so if anybody reads this transcript they
7	position before the National Toxicology Project that	7	can try to make sense of what is here.
8	there was never any evidence of asbestos in the talc	8	Would you take a minute and look at
9	used in Johnson's Baby Powder?	9	that and see if there are any corrections that need
10	A The position was that the cosmetic talc	10	to be made.
11	used in Johnson's Baby Powder was not a carcinogen.	11	MS. O'CONNOR: To the best of your
12	Q You knew that was what was being related	12	recollection.
13	to the National Toxicology Project?	13	MR. PLACITELLA: Right.
14	A Yes.	14	A I made some changes.
15	Q Okay. If that turned out to be wrong,	15	Q Are you satisfied that that is accurate?
16	then the entire premise for what was communicated to	16	A To the best of my knowledge, yes.
17	the federal government would be false, correct?	17	Q I don't think I have any other questions.
18	MS. O'CONNOR: Objection to the form	18	Thank you for your time.
19	of the question.	19	I do apologize. I was told by
20	Q Is that correct?	20	counsel I got frisky at one point. Italians have a
21	A We presented evidence, suppliers presented	21	hard time with that.
22	evidence, experts presented evidence. We did not	22	THE VIDEOGRAPHER: The time is now
23	feel that the products was a carcinogen.	23	5:00 p.m. We are back on the record.
24	Q What evidence did you provide to the	24	• • • • • • • • • • • • • • • • • • • •
25	National Toxicology Project proving that there was	25	
	Page 202		Page 204
1	never asbestos in the talc used in Johnson's Baby	1	CROSS EXAMINATION BY MS. O'CONNOR:
2	Powder?	2	Q Good afternoon, Ms. Musco, we know each
3	A What the question was, was whether or not	3	other. I'm Kathy O'Connor and I would like to ask
4	talc was a carcinogen. That's what all the	4	you a few questions.
5	discussions were about.	5	So we have been here for a while, but
6	Q My question is different. What evidence	6	I would like to know a little bit more about you and
7	did you, Johnson and Johnson, present to the	7	your background. Where did you grow up?
8	National Toxicology Project concerning whether there	8	A I grew up in New Jersey.
9	was asbestos ever found in the talc used in	9	Q Where in New Jersey grow up?
10	Johnson's Baby Powder, if you know?	10	A Bergen County, North Arlington.
11	MS. O'CONNOR: Objection to the form	11	Q Did you go to high School?
12	of the question. Over broad.	12	A Yes, Queen of Peace on North Arlington.
13	A No. Everything concentrated on whether or	13	Q Let's do that again. Where did you go to
14	not tale was a carcinogen and that was the evidence	14	high school?
15	that was presented. I don't know any specifics.	15	A Queen of Peace High School in North
16	Q As you sit here today you don't know what	16	Arlington.
17	evidence was provided or not provided to the	17	Q Did you work or volunteer when you were in
18	National Toxicology Project concerning whether there	18	high school?
19	was asbestos in Johnson's Baby Powder at any point	19	A Yes. I was a candy striper pretty much in
20	in time. Is that fair?	20	my second year of high school all the way through.
21	A I don't know specific studies presented,	21	Q What is a candy striper? I know what
22	no.	22	those are, but not everyone does.
23	MR. PLACITELLA: Mark this as	23	A A candy striper is a volunteer in a
	Musco-4.	24	hospital. It got their name from the striped
24		1	
24 25	(The above document is marked	25	pinafore we used to wear.

Page 205 Page 207 1 1 not a burn new unit at the time, but there was going These are volunteers who assist with 2 2 giving patient mail, giving out visiting cards, et to be one. So I wanted to be able to be in the 3 cetera, in a hospital. 3 hospital. 4 Q Why did you volunteer as a candy striper? I first worked in orthopedics and 4 5 5 A Because I wanted to be a nurse. I then I worked in cardiac care. After a little while 6 couldn't wait to get in the hospital. 6 we were able to start our intensive training and I 7 Q Why did you want to be a nurse? 7 was one of the first, or one of the ten first nurses 8 8 A I wanted to be a nurse ever since I was to open the burn unit. 9 about three years old. A friend had given us, or 9 Q What were your responsibilities as a nurse 10 given me a nurse's uniform complete with cape and 10 in the burn unit? 11 cap. I thought it was the greatest thing in the 11 A Everything and anything. We were 12 world. I wanted to be the one who knew what to do 12 responsible pretty much one on one to the patients 13 for their entire care, physical and emotional, in an emergency. 13 14 Q Did you graduate high school and go on to 14 educational. 15 study nursing? 15 There was a lot to be done because 16 A Yes. I graduated high school and I went 16 the patients were with us for an average of probably to the University of Bridgeport in Connecticut. 17 two months. So we not only had to care for them 17 18 Q Did you major in nursing? 18 in during the intensive period, but we had to 19 A I majored in nursing. 19 prepare them to go home, educate their families. Q Did you work while you were in college? 20 I started the burn clinic in an 20 A Yes. I worked as an LPN, a licensed the educational program. Sometimes we will go out to 21 21 practical nurse. At that time after a year, year 22 different groups in the area. If a child had been 22 and a half of nursing study you could take your 23 burned, sometimes I went to their school and taught 23 24 24 practical nurse test, which I did, and I passed. his or her classmates what to expect when the child 25 So I was able to work in the summers 25 came back. A lot of teaching involved. Page 206 Page 208 1 1 Q When you said you participated in as a licensed practical nurse. I worked in 2 Riverview Hospital in Red Bank. Them I also worked 2 education, was it just the patient, did it involve 3 in Hackensack Hospital in Hackensack, New Jersey. 3 the family? 4 Q What types of patients did you work with 4 A The entire process. Again, because the 5 5 while you were an LPN in college? patients were with us so long, and it was such a 6 A I took care of a myriad of different 6 catastrophic trauma that happened to them, their 7 patients. What really stuck out in my mind was in 7 entire family was involved and affected. 8 8 Hackensack there was an explosion nearby and the So we were educating both the 9 hospital received a lot of burn victims. 9 patients themselves and the family and the care of 10 They were looking for volunteers to 10 the patient and what to expect. 11 help take care of them. So I was interested. This 11 Q For how long were you a burn unit nurse? will be interesting. I volunteered to take care of 12 A About seven years all together. 12 13 one of the patients. 13 Q At some point you stopped being a burn 14 Q What did you find interesting about 14 unit nurse. Why did you do that? 15 working with burn patients? 15 A It is a lot to do emotionally. Q What does that mean? A It was the ultimate challenge for me. 16 16 17 That actually sparked my interest in nursing. I 17 A I think it is one of the worse things that 18 knew that's what I wanted to do because it involved 18 can happen to a human being because it involves not 19 the entire body, every system, everything could go 19 only the physical trauma, but the emotional trauma 20 wrong. 20 because it reflects how they look to the world, and 21 Q Did you go on to become a nurse in a burn 21 with the one on one, we as nurses, bore a lot of 22 unit? 22 those emotions for the patients. 23 A Yes. After I graduated and passed my 23 We had to hurt them in order to make registered nurse license, I went to St. Barnabas them better, and that's not something you can do 24 24 25 Medical Center in Livingston, New Jersey. There was 25 easily day after day. It was time for me to change.

Page 209 Page 211 1 Q Time for you to change. What did you 1 responsible for seven counties in New Jersey, Central New Jersey. You can imagine it is a wide 2 2 decide to do? 3 A Well, because I thought working in the 3 spread area. burn unit to me was the ultimate in patient care in 4 4 We get them from a lot of domestic 5 5 a hospital, I decided to look outside. violence centers, we get them from the county 6 I enjoyed the teaching part so much. 6 unemployment and we also get them from homeless 7 I liked teaching my patients. I wanted to continued 7 8 8 that in some form or another. Q What kind of work do you do with them? 9 9 A Helping them find their goals, where they Q Did you continue to teach people in some 10 form after you left the burn unit? 10 need to go in life, helping them identify their 11 A Yes. I was lucky enough to earn a 11 journey and what they would like to accomplish so position at Johnson and Johnson, Johnsn's Baby 12 12 they could get meaningful employment. Products at the time, where I was responsible for 13 13 O How do you help them identify their goals? 14 speaking to consumers, which were mainly new 14 A One of the biggest things I do is I lead a 15 parents. 15 program called Designing Your Future, which is a 16 I not only talked to them about the 16 nine week program where we meet weekly. We start 17 products, but got to talk to them about how to care off with goals and objective and we discuss 17 18 for their there babies? 18 emotional intelligence, healthy living as well as 19 Q What made you choose Johnson and Johnson? 19 resumes and interviewing. 20 A From New Jersey, and Johnson and Johnson 20 Q Do any of your clients go on to work in is one of the most respected companies in the world, 21 21 nursing? and certainly in our area. In fact, to be honest, I 22 22 A Yes. As a matter of fact, I recently had 23 didn't even first look at Johnson and Johnson 23 a client and one of the things I was asking the 24 24 first day is if they could be anything they wanted because I thought they were too special and maybe 25 they wouldn't hire me, but it definitely is one 25 to be, never mind money, education, location, or Page 210 Page 212 1 1 of the best. whatever, what would they be. 2 My brother had worked there. I just 2 Sometimes I get some crazy things. 3 knew it was one of the best companies to work with. 3 This one particular woman said she wanted to be a Q How long did you work at Johnson and 4 nurse. I said I'm a nurse. We will have to talk. 4 5 5 Johnson? She said to me actually, I want to be 6 A Thirty years. 6 a burn nurse. I situated that's pretty specific. 7 Q When did you leave? 7 Q Did she know you were a burn nurse?. 8 8 A She didn't even know I was a nurse was a Α 2012. 9 Q Why did you leave? 9 pretty specific thing to say. I said we have to 10 A We were downsizing, departments were 10 talk. changing and I'm now officially retired. 11 11 I went up to her on a break. We Q So now that you are officially retired, started talking. I'm going to get the chills every 12 12 what do you do to fill your days? 13 time I talk about this. It turns out when she was 13 14 A I work for Dress for Success in Central 14 three years old she had been severely burned by New Jersey. I'm a program manager. 15 accidently pulling a pot of boiling water over on 15 Q And what does a program manager do? herself. Her parents were not paying attention to 16 16 17 A Well, Dress for Success not only provides 17 her. She had a rough life. 18 clothes for people, but we provide a network of 18 She was severely burned and she was 19 support and job development and life skill workshops 19 taken to St. Barnabas. When I told her what I did, 20 for woman who are unemployed. I'm the one who 20 she started crying, I started crying. She said she 21 designs and facilitates the workshops. 21 has been looking to thank the nurses who saved her 22 Q How do you get your clients at Dress for 22 life. Quite a story. I went on to mentor her. We 23 Success? Where do they come from? 23 worked very close. A All our clients are referred to us from She now has her high school diploma 24 24 25 the many social agencies in the area. We are 25 She didn't at the time. She got out of her domestic

	Page 213		Page 215
1	violence situation and in January she starts her	1	people trusted. Is that fair?
2	nursing course.	2	A Yes.
3	Q That's a remarkable story. Do you have	3	Q You were one of those kinds of people?
4	children of your own?	4	A I hope so.
5	A Two children, a boy and a girl. They are	5	Q When they had you go out and speak to
6	all grown now.	6	people, they kind of knew that about you, that you
7	Q Mr. Placitella asked you a lot of	7	were one of those people that people kind of liked
8	questions about the safety of Johnson's Baby Powder	8	and would trust if they told them something about
9	with talc. Did you ever use Johnson's Baby powder	9	the product. Is that fair?
10	with talc in your house?	10	MS. O'CONNOR: Objection to the form.
11	A I used it on both my children. I even	11	You can answer.
12	used it on my elderly mother and from time to time	12	A Again, I hope people do trust me, yes.
13	used it on myself.	13	Q So if you were given information about the
14	Q Do you still believe in the safety of	14	product, the information that you are providing is
15	Johnson's Baby Powder with tale?	15	only as good as the information that had been
16	A Absolutely. We use Johnson's Baby Powder	16	provided to you, correct?
17	with talc. It's safe.	17	A Yes. From our scientists I believe and
18	Q Thank you for your time.	18	trust their expertise, yes.
19	THE VIDEOGRAPHER: The time is now	19	Q And while you were there, even though you
20	5:12 p m. We are off the record.	20	were in charge of communicating with the public
21	THE VIDEOGRAPHER: The time is now	21	about Johnson and Johnson's Baby Powder, no one ever
22	5:13 p m. We are back on the record.	22	told you about any of the tests where they found
23		23	asbestos in the mines that were the source of
24		24	Johnson' Baby Powder, correct?
25		25	MS. O'CONNOR: Objection to the form
	Page 214		Page 216
			rage 210
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1 2	REDIRECT EXAMINATION BY MR. PLACITELLA: O A couple of questions. One, thank you for	1 2	of the question. You can answer.
	Q A couple of questions. One, thank you for	1 2 3	of the question. You can answer. A What I do know is there's no asbestos in
2		2	of the question. You can answer. A What I do know is there's no asbestos in Johnson's Baby Powder.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q A couple of questions. One, thank you for your kindness. A You're welcome. Q I'm assuming that your kids and your mon are all healthy and they don't suffer any ill effects at this point? A My children are very healthy. My mother is deceased now. She died when she was 99. Q Oh, great. So you've got good genes. You tried to do the best job you could when you were at Johnson and Johnson. Is that fair? A Absolutely. Q And because you were the person dealing with the public, your ability to do your job correctly and appropriately was only as good as the information that you were provided about the products. Is that fair? A Partly, but I think that I also was able to do a good job because I was able to draw on my nursing experience. That was part of why I was hired. I had the ability to speak to people. Again, meet them where they are in a way they could understand. Q I understand. Part of it was you were the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	of the question. You can answer. A What I do know is there's no asbestos in Johnson's Baby Powder. Q That wasn't my question, Ma'am, with all due respect. When you were making the statements, no one at Johnson and Johnson ever told you anything about any of the tests where asbestos was found in the mines that were the source of the Johnson's Baby Powder, correct? MS. O'CONNOR: Objection to the form. You can answer. A I'm not familiar with any of those tests. Q No one ever told you? MS. O'CONNOR: Objection. A I'm not familiar. Q And can you put your plant on that black book right there. And no one ever told you about any of the tests that were in that block book, right? MS. O'CONNOR: Objection to the form. You may answer. A I've not seen these, no. Q Although you met with your attorney for almost twelve hours, your attorney never showed you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q A couple of questions. One, thank you for your kindness. A You're welcome. Q I'm assuming that your kids and your mon are all healthy and they don't suffer any ill effects at this point? A My children are very healthy. My mother is deceased now. She died when she was 99. Q Oh, great. So you've got good genes. You tried to do the best job you could when you were at Johnson and Johnson. Is that fair? A Absolutely. Q And because you were the person dealing with the public, your ability to do your job correctly and appropriately was only as good as the information that you were provided about the products. Is that fair? A Partly, but I think that I also was able to do a good job because I was able to draw on my nursing experience. That was part of why I was hired. I had the ability to speak to people. Again, meet them where they are in a way they could understand.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	of the question. You can answer. A What I do know is there's no asbestos in Johnson's Baby Powder. Q That wasn't my question, Ma'am, with all due respect. When you were making the statements, no one at Johnson and Johnson ever told you anything about any of the tests where asbestos was found in the mines that were the source of the Johnson's Baby Powder, correct? MS. O'CONNOR: Objection to the form. You can answer. A I'm not familiar with any of those tests. Q No one ever told you? MS. O'CONNOR: Objection. A I'm not familiar. Q And can you put your plant on that black book right there. And no one ever told you about any of the tests that were in that block book, right? MS. O'CONNOR: Objection to the form. You may answer. A I've not seen these, no. Q Although you met with your attorney for

	Page 217		Page 219
1	MS. O'CONNOR: Objection to the form.	1	are going off the record.
2	A Yes, that is correct.	2	
			(The deposition is concluded.)
3	•	3	
4	fair?	4	
5	A I would like to think that, yes.	5	
6	Q And you trusted Johnson and Johnson?	6	
7	A Absolutely.	7	
8	Q And you tried to convince people to trust	8	
9	Johnson and Johnson?	9	
10	MS. O'CONNOR: Objection to the form.	10	
11	You may answer.	11	
12	A I trusted the company and tried to convey	12	
13	their trust, yes.	13	
14	Q And whether that trust was justified or	14	
	· · · · · · · · · · · · · · · · · · ·	15	
15	not only goes so far as to whether the information	16	
16	that you were provided was true and accurate in all		
17	respects, correct?	17	
18	A I believe that trust was deserved.	18	
19	Q It only went so far as the	19	
20	information you were providing was true, complete	20	
21	and accurate in all respects, correct?	21	
22	MS. O'CONNOR: Objection to the form.	22	
23	A Trust is based on information, but it is	23	
24	also based on reputation. It is a company made up	24	
25	of people.	25	
	Page 218		Page 220
1	Q And there are very good people at Johnson	1	CERTIFICATE
2	and Johnson, right?	2	
3	A Absolutely.	3	I, MARC BRODY, Notary Public and
4	Q But there are people who had discussions	4	Certified Shorthand Reporter of the State
5	about the powder, the baby powder, as we saw in the	5	of New Jersey, do hereby certify that prior
6	documents during the course of this deposition that	6	to the commencement of the examination
7	they didn't even tell you about, and you were the	7	the witness was duly sworn by me to
8	person in charge of going and talking to the public,	8	testify the truth, the whole truth and
9	right?	9	nothing but the truth.
10	MS. O'CONNOR: Objection to the form.	10	I DO FURTHER CERTIFY that the
	· · · · · · · · · · · · · · · · · · ·	11	
11	Vague and ambiguous. Over broad.		foregoing is a true and accurate transcript
12	A I didn't see every document, no.	12	of the testimony as taken stenographically
13	Q And they had discussions outside of your	13	by and before me at the time, place and on
14	presence about the dangers or problems associated	14	the date hereinbefore set forth.
15	with baby powder and those were never communicated	15	I DO FURTHER CERTIFY that I am neither
16	to you as the person who was in charge of dealing	16	a relative of nor employee nor attorney nor
17	with the public as it relates to baby powder, right?	17	counsel for any of the parties to this
18	MS. O'CONNOR: Same objection.	18	action, and that I am neither a relative
19	Compound, vague, ambiguous. You can answer.	19	nor employee of such attorney or counsel,
20	A There may have been conversations that I	20	and that I am not financially interested in
21	was not privy to, yes.	21	the action.
22	Q That's all the questions I have. Thank	22	
_	you.	23	
23	,	1 -3	
23 24	THE VIDEOGRAPHER. The time is now	24	Notary Public of the State of New Jersey
23 24 25	THE VIDEOGRAPHER: The time is now 5:19 p m. and this concludes today's deposition. We	24 25	Notary Public of the State of New Jersey

Exhibit 21

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1	UNITED STATES	BANKRUPTCY COURT
2		CT OF NORTH CAROLINA CTE DIVISION
3	IN RE:	: Case No. 21-30589-JCW
4	LTL MANAGEMENT LLC,	: Chapter 11
5	Debtor,	: Charlotte, North Carolina Friday, November 5, 2021
6		: 9:04 a.m.
7		
8	LTL MANAGEMENT LLC,	: AP 21-03032-JCW
9	Plaintiff,	:
10	v.	:
11	THOSE PARTIES LISTED ON APPENDIX A TO COMPLAINT and	:
12	JOHN AND JANE DOES 1-1000,	:
13	Defendants.	:
14		
15	vo	DLUME 2
16		OF PROCEEDINGS ABLE J. CRAIG WHITLEY,
17		BANKRUPTCY JUDGE
18		
19	Audio Operator:	COURT PERSONNEL
20	Transcript prepared by:	JANICE RUSSELL TRANSCRIPTS
21		1418 Red Fox Circle Severance, CO 80550
22		(757) 422-9089 trussell31@tdsmail.com
23	Proceedings recorded by electr	ronic sound recording; transcript
24	produced by transcription ser	
25		

	156570	297
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	156572	299
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	156573	300
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	156574	301
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	156575	302
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	156576	303
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23						
24						
25						

KUFFNER - CROSS 416

- 1 Dr. Waldstreicher just said in that video, do you?
- 2 A No, I absolutely agree with it.
- 3 | Q Okay. All right. Let me just go to one last thing before
- 4 | I turn, turn the questioning over to my colleagues.
- 5 Last Saturday when we spoke, we talked about what you can
- 6 and cannot testify to from firsthand knowledge, do you remember
- 7 | those questions?
- 8 A I do remember that.
- 9 Q Okay. And just to refresh the record here on this, you
- 10 began as Chief Medical Officer in 2017, true?
- 11 A Correct.
- 12 | Q But the issue of talc safety and, in particular, talc and
- 13 ovarian cancer, was an issue that, that preceded your tenure as
- 14 Chief Medical Officer by decades, true?
- 15 A Correct.
- 16 Q And you would agree for at least a half century before you
- 17 | became CMO for Old JJCI in 2017 there were questions raised in
- 18 | the medical and scientific community about the safety of talcum
- 19 powder, true?
- 20 A Yes.
- 21 | Q Okay. And there really were, primarily, two issues we've
- 22 talked about over the past couple days, whether or not talc
- 23 used by women and whatever is in that bottle, including
- 24 | asbestos, can cause ovarian cancer, true?
- 25 A That's one of the allegations, yes.

Exhibit 22

TOXIC SUBSTANCES CONTROL ACT OF 1973

HEARINGS

BEFORE THE

ENVIRONMENT SUBCOMMITTEE

ог тн

COMMITTEE ON COMMERCE UNITED STATES SENATE

NINETY-THIRD CONGRESS

FIRST SESSION

ON

S. 426 and Amendments 1, 8, and 9

TO REGULATE INTERSTATE COMMERCE BY REQUIRING PRE-MARKET TESTING OF NEW CHEMICAL SUBSTANCES AND TO PROVIDE FOR SCREENING OF THE RESULTS OF SUCH TEST-ING PRIOR TO COMMERCIAL PRODUCTION, TO REQUIRE TESTING OF CERTAIN EXISTING CHEMICAL SUBSTANCES, TO AUTHORIZE THE REGULATION OF THE USE AND DIS-TRIBUTION OF CHEMICAL SUBSTANCES, AND FOR OTHER PURPOSES

S. 888

TO BE KNOWN AS THE TOXIC SUBSTANCES CONTROL ACT OF 1973

FEBRUARY 23, 26, AND MARCH 21, 1973

Serial No. 93-18

Printed for the use of the Committee on Commerce



U.S. GOVERNMENT PRINTING OFFICE

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WASHINGTON: 1978

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(II)

and flaking. The atmosphere of the working space can easily be contaminated by asbestos. For other groups, see Table III.

One unsuspected source of asbestos is in tales which contain varying amounts of tremolite asbestos. Tales are soft and can be reduced to small particle size; they are cheap and are good thermal and electrical conductors and, like asbestos, are resistant to attack by acids and bases. These properties allow for a multiplicity of uses (see Table IV) ranging from fillers in scouring soaps to solid lubricants.

Blejer (130) has called attention to the potential cancer hazard posed by the strong chemical similarity between talc and asbestos, and has also written to one of the authors that many mineralogists doubt if such a thing as an asbestos-free talc deposit exists. This latter complication has so far prevented the appearance of a study of cancer incidence of workers exposed to pure talc. Talc miners who work with a talc containing about 30% tremolite risk developing a talc fibrosis similar to asbestosis and incur four times as much cancer of the lung and pleura as their counterparts in the general population (131).

A few mineralogical analyses have been made on talcs used in these many items. A study by Schulz and Williams on 51 commercial talcs indicated a range of 0 to 82% tremolite with greater than trace amounts in 17, or one third (115). This alarming report beckons a thorough analysis of all uses of talcs. Some of the area which requires immediate investigation should be in talcum powders and vaginal deodorants. Here large quantities of talc which could contain different amounts of asbestos can be easily administered to prime cancer sites.

Among talc uses which should be strictly controlled include the use as lubricants in the interior walls of balloons, where children naturally inhale and exhale the air used to inflate the item. Recent analyses of a limited number of brand by the Food and Drug Administration revealed no asbestos in the talc. However, strict regulations on talc use are still needed with an active program of surveillance.

A recently discovered serious contamination problem is in the area of coats imported from Italy which contain asbestos mixed with wool. This was detected because the coats were declared to contain asbestos in order to escape the wool duty. Before the public was alerted in 1971, there was an estimated 100,000 coats sold to women in this country. A measurement of air concentrations near lightly brushed coats were 10,000 times more asbestos than normal background (132).

ASBESTOS IN FOOD, DRINKS, AND DRUGS

Though asbestos is not directly added to human foods, still it is able to contaminate them through careless and thoughtless practices. One such practice is the polishing of rice by the use of talcs. Talc is also used as a dusting powder for salami and a polishing medium for peanuts (128). Merliss believes that since much of the polished rice eventually is exported to Japan, this might be a reason why there is a very high incidence of stomach cancer in that country (133). While this inference was highly questioned in recent months, Merliss' report eventually led the Food and Drug Administration to propose a ban on asbestos-containing talc as a polishing agent (see Appendix 2).

A use of asbestos which causes considerable worry is the use of asbestos filters for beer, wine, and hard liquors. This allows for small fibers to be washed into the final product and find their way into the stomachs of drinkers. One of the authors spoke with the chief engineer at a Carling brewery and informed him of the hazardous potential of asbestos to workers and the public. The company immediately procured a cellulose substitute from Grefco, Incorporated, which had also furnished the asbestos-containing filter material. Asbestos filter media are widely used in United States breweries, and at this time a number of companies are switching to substitutes voluntarily in order to preempt government regulation and adverse publicity.

The above experience supports the claim that the resistant properties and low cost of asbestos lead to widespread, nonessential uses which can be readily substituted and eliminated.

Asbestos-containing filters are also used by some manufacturers of gin. Representatives of Seagrams, one of whose products is Calvert gin, maintain that asbestos has unique filtration properties and the company is seeking other materials which can produce satisfactory clarity in their product. Electron microscopist Henry Wehman found greater concentrations of asbestos fibers in

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(n) require adequate wetting to lay dust in demolition of buildings containing asbestos

(o) prohibit the use of asbestos cement pipe in metropolitan water supply systems.

What can you do as an individual concerned citizen? Now that you know that asbestos is used in a multitude of products, many of which are not labeled, beware of any product which could conceivable contain friable asbestos fibers. If you suspect that a product in a hardware store contains asbestos, read the label, ask the salesman, and (if necessary) write to the manufacturer. Ask your local hardware dealer to remove asbestos dust from the shelf.

Check pipe and boiler insulation in your home and see that the surface is not broken. You can buy resin-impregnated cloth to wrap the pipe insulation. Replace torn ironingboard covers and buy them (asbestos waste can otherwise find its way into the air via a municipal incinerator). Likewise, bury any imported coats purchased in 1970-71 which contains asbestos as indicated on the label.

Make sure that your neighborhood elementary school no longer has asbestos powder for making puppets and masks. Find out whether the building you work in has uncovered asbestos fireproofing in the recirculation air plenum or on ceilings. Ask local breweries and distillers if they use asbestos filters.

If there is an asbestos mine, mill or manufacturing plant near you, find out what it discharges into the air and water. Are ore-carrying trucks covered with tarpaulins?

Before 1895, when Johnson and Johnson began talc manufacture, babies were commonly dusted with corn starch; this safe substitute is still available, and at one-fourth the cost of talc. We recommend it. Don't use feminine hygiene sprays which contain talc. Avoid talc-dusted balloons, rice, prophylactics and chewing gum. If you suspect a product, write to the manufacturerand let us know if you discover another use of asbestos.

While many of the applications of asbestos products cannot be judged at this moment due to lack of sufficient evidence of hazardous use, still we should err on the side of prudence; we should remove a suspected product until the manufacturer proves that the item is not harmful. It is not the duty of the public interest scientist to prove whether each and every item is harmful or safe. The public has the right to demand this scientific evidence from the manufacturers of the consumer products which will otherwise simply be means to further profits at the expense of the health and safety of the American people.

Economics should not be the major determinant as to whether to remove an asbestos-containing product. Building plans may have to be modified and construction and demolition costs increased, but these are small when compared to the risk of health involved. The application of insulation in sheet or other solid form, although less convenient than spray application, still provides adequate insulation and fireproofing. Furthermore, asbestos-free sprays have been developed.

It is time for the American people to view asbestos as neither friend nor foe. The far wiser position is to treat this potentially toxic material with utmost respect, and only use it where absolutely necessary. If we did so, the volume of asbestos mined and processed would undoubtedly decrease, but the life and health of many people would be prolonged and improved. It is time the citizen makes his views known on this environmental pollutant.

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Exhibit 23

The Journal of Obstetrics and Gynaecology of the British Commonwealth March 1971. Vol. 78. pp. 266-272.

TALC AND CARCINOMA OF THE OVARY AND CERVIX

BY

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Summary

An extraction-replication technique was used to examine tissue from patients with ovarian and cervical tumours. In both conditions tale particles were found deeply embedded within the tumour tissue. The close association of tale to the asbestos group of minerals is of interest.

THE development in this laboratory of an extraction-replication technique (Henderson, 1969) for the study of foreign particles within tissues has allowed the *in situ* identification of crocidolite asbestos within the tissue of various mesotheliomas (Henderson et al., 1969) removed from patients who had been concerned with the manipulation of asbestos in industry. This technique has now been applied to the study of tissue from ovarian and cervical carcinoma.

MATERIALS AND METHODS

Tissue

The tissue studied was obtained from patients with cancer of either the ovary or the cervix, and was first prepared as paraffin sections for normal routine histological examination but was unstained. Sections were then stained for histological assessment in the usual manner, and adjacent unstained tissue prepared for electron microscopy.

Replication Technique

The extraction-replication procedure has been described (Henderson, 1969). Sections of tissue were immersed in xylene and in ethanol, and the dehydrated tissue was then embedded by

impressing the section on to the surface of a thin sheet of acetone-softened cellulose acetate, mounted on a glass slide, and left to harden. On removing the slide, the embedded tissue was left in the cellulose acetate. The tissue was then outlined with thin strips of Scotch tape to form a shallow well, and a 10 per cent (v/v) polyvinyl alcohol (PVA) solution applied. When the PVA had hardened it was stripped from the section providing a replica of the tissue surface. Foreign particles associated with the tissue are often removed with the PVA during this stripping process.

A complete sequential examination through the embedded tissue is possible by taking successive strippings. These surface replicas were then preshadowed with platinum, a carbon film deposited for strength, and the PVA removed by floating the replica in a hot water bath. Replicas were mounted on electron microscope grids for examination, using the AEI-6B microscope.

RESULTS

No asbestos particles were found in any of the tissue studied. Particles of talc were identified in approximately 75 per cent (10 of 13) of the

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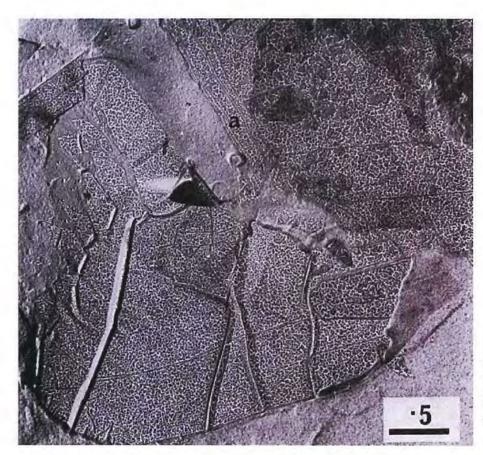


Fig. 1

Typical decoration pattern on a particle of natural talc. Numerous crystal lattice planes are shown (a). (\times 30 000.)

Scale refers to 1·0 μ .

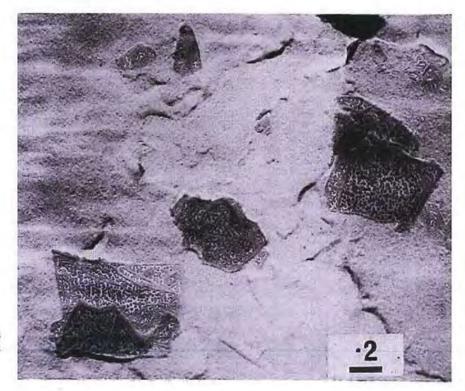


Fig. 2
Commercial talc preparations illustrating the decoration pattern. (×40 000.)

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Fig. 3

Micrograph of tissue from a serous papillary cystadeno-carcinoma of the ovary removed from a 27-year-old female. No previous abdominal operations had been carried out. The decoration pattern and lattice planes are shown. (×30 000.)

ovarian tumours. Using the replication technique identification of talc is possible because of the characteristic "decoration pattern" induced by the evaporation of platinum in vacuo on the crystal surface. Figure 1 shows this pattern on a particle of natural talc and the distinctive lattice planes of the crystals. Anthophyllite asbestos, which is known to be converted naturally to talc, is the only crystalline material which is at present indistinguishable from talc by using the replication technique. The decoration pattern on material from a commercial talc preparation is also demonstrated in Figure 2.

Material found within the ovarian tumours

and identified as talc is illustrated in Figure 3. The talc particles were found deep within the tumour tissue. Some were as small as 1000Å in size but they were generally within a range from 1000\AA to 2μ .

Talc particles were also found embedded within tumours of the cervix. Figure 4 shows one such particle embedded in a capillary wall within the tumour, and Figure 5 illustrates the decoration pattern of the particle at a higher magnification. Crystals as large as 5 μ . were found in tissue from the cervical tumours and were generally larger than those seen in the ovarian tumours. Talc crystals were found in

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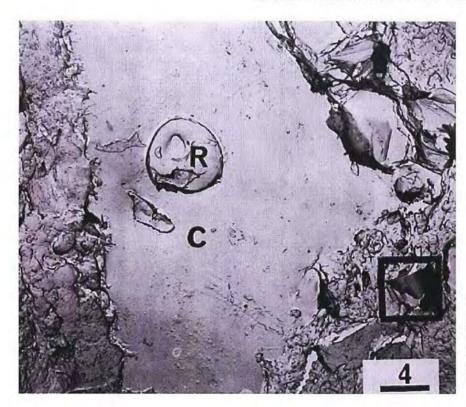


Fig. 4

Micrograph of tissue from a squamous-cell carcinoma of the cervix from a 62-year-old female. C—capillary, R—red cell. The particle of talc can be seen in the wall of the capillary. (×3500.)



Fig. 5

A higher magnification of the tale particles outlined in Fig. 4. The typical decoration pattern is shown. (×40 000.)

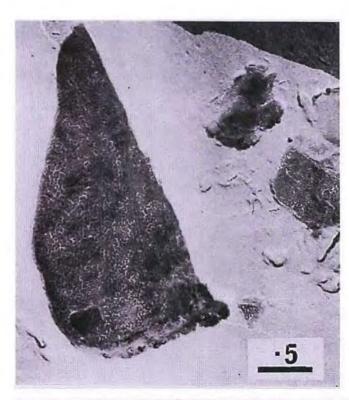


Fig. 6
Talc particles found in tissue from a pneumo-coniotic lung. (×30 000.)

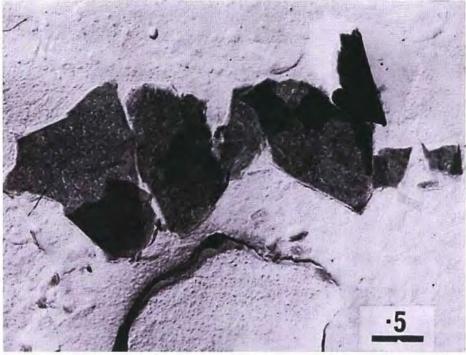


Fig. 7

Micrograph from the deepest part of an extensive papillary adenocarcinoma entirely replacing the endometrium in a 58-year-old woman, 8 years postmenopausal. Both ovaries were enlarged by hilar metastases, showing histological features similar to the primary endometrial lesion. Numerous tale particles were found in the primary endometrial carcinoma, but none in the metastatic ovarian tumours. (×26 000.)

approximately 50 per cent of the cervical tumours examined (12 of 21) but it must be realized that these particles are extremely minute, often with the dimensions of viruses, and only small regions of the tumour tissue could be studied. Approximately ten replication "strippings" for electron-microscope examination are usually taken from each thin section of the tissue. Figure 6 illustrates the use of the technique in the examination of pneumoconiotic lung tissue from a patient whose industrial history indicated long exposure to Norwegian talc.

Many particles of talc were found concentrated in the deeper layers of a primary carcinoma of the endometrium (Fig. 7) whereas extensive studies of a secondary tumour in the ovary in the same patient did not show the presence of talc. Application of the technique to "normal" ovarian tissue removed from patients with breast cancer has also shown talc particles in 5 of 12 such tissues studied. Extensive study at high magnification with the electron microscope is, however, required for evaluation of a replica and particles could easily be missed.

The application of electron-microscope microanalysis (EMMA-AEI, Harlow, England) to the particles extracted by the replication technique has provided preliminary evidence that the crystals contain magnesium and silicon, talc being a magnesium silicate.

DISCUSSION

The possibility that the increasing incidence of carcinoma in western society may be related to a corresponding increase in the use of asbestos (Graham and Graham, 1967) is of interest, especially with regard to pleural and peritoneal mesotheliomas in workers exposed to crocidolite asbestos in industry (Wagner et al., 1960; Elwood and Cochrane, 1964). There have been a number of reports about the relationship between asbestos and carcinogenesis (Smith et al., 1965; Jacob and Anspach, 1965). However, the identification of asbestos fibres within tissue is extremely difficult. Fine particles embedded within tumour tissue are usually beyond the limits of resolution of the optical microscope, and tissue incineration, followed by electron microscopy of the isolated particles, may be unreliable if chemical changes are

induced by the procedure. Using normal light microscopy, identification of asbestos particles is based on the presence of characteristic ferritin bodies on some of the fibres, although these cannot easily be distinguished from similar bodies around elastin fibres (Henderson et al., 1970). This procedure may not, however, be as unreliable as the use of polarized light for the demonstration of brightly illuminated "birefringent crystals of asbestos".

The replication technique (Henderson, 1969) failed to show asbestos fibres in the ovarian neoplasms studied. On the other hand, there was good evidence for the presence of talc, often indistinguishable from anthophyllite asbestos, within the ovarian tissue. (Anthophyllite is converted naturally to talc.) The talc particles were found localized deep within tumour tissues, and not universally dispersed throughout the tumour. The talc particles in the ovary were generally much smaller than those found in the tissue from the tumours of the cervix.

The relationship between asbestos and mesotheliomas appears well established, and the replication technique has provided unequivocal evidence for the presence of fibres within such tumours. This technique has also produced evidence for the presence of talc in tissue from pneumoconiotic lungs of a patient with an industrial history of exposure to Norwegian talc (Henderson et al., 1970). The presence of mica, kaolin and asbestos fibres were also identified in tissue from these pneumoconiotic lung tissue.

Although it is impossible to incriminate tale as a primary cause of carcinomatous changes within either the cervix or the ovary on the preliminary observations described here, the possibility that tale may be related to other predisposing factors should not be disregarded and further investigations are obviously required.

ACKNOWLEDGEMENTS

The authors gratefully acknowledge the generous financial support of the Tenovus Organization. They also thank Dr. J. W. Dobbie, Department of Pathology, Royal Infirmary, Glasgow, for supplying a number of tissue sections, and also Mr. D. E. Evans, Department of Geology, National Museum of Wales, for the natural minerals required for reference purposes.

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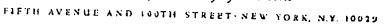
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Exhibit 24



MOUNT SINAL SCHOOL OF MEDICINE of The City University of New York





Department of Community Medicine

593EP 1971

August 22, 1971

Mr. W.J. Henderson
Tenovus Institute for Cancer Research
The Welsh National School of Medicine
Heath
Cardiff, Wales
Great Britain

Dear Mr. Henderson:

My colleagues and I have read with great interest the recent report "Talc and Carcinoma of the Ovary" in the British Journal of OB-GYN. You and your associates are to be congratulated on a very good and important piece of work.

Dr. Hildick-Smith, medical director for Johnson and Johnson Company, forwarded to our laboratory a block of tissue from the Tenevus collection. We have studied the material and have confirmed your observations. We have also found other particles of interest. We feel these new observations are worthy of report to the scientific community here in the United States.

Would you or your colleagues object to our reporting these additional findings? We will certainly acknowledge your work, findings, and the origin of the tissue.

We shall be looking forward to hearing from you concerning this matter.

Sincerely,

Arthur M. Langer

Associate Professor of Mineralogy

AML/lh

Exhibit 25

SA MEDICAL JOURNAL

917

Migration of a Particulate Radioactive Tracer from the Vagina to the Peritoneal Cavity and Ovaries

P. F. VENTER, M. ITURRALDE

SUMMARY

in this report we describe a radionuclide procedure designed to evaluate the migration of a particulate radioactive tracer from the vagina to the peritoneal cavity and ovaries, as well as the determination of the patency of the pathways between these two extremes of the female reproductive system.

"Tc-labelled human albumin microspheres ("Tc-HAM) were deposited in the posterior fornices of 24 patients a day before they were to undergo different gynaecological operations. During this period sequential images were obtained and after the operation radioactivity levels in the removed organs and tissues were counted with a scintillation detector.

In 14 out of 21 cases, the ovaries and fallopian tubes were counted separately from the uterus. Nine were positive (radioactivity levels were sufficiently high in the tubes and ovaries) and 5 were negative (no substantial radioactivity levels could be detected in either the tubes or the ovaries). The 5 negative results all occurred in patients with proved tubal damage as a result of previous infection.

All the results were either true positive or true nega-, providing evidence of migration, or obstruction, of "Tc-HAM from the vagina through the uterus and tubes to the peritoneal cavity and ovaries.

S. Afr. med. J., 55, 917 (1979).

In the female, the peritoneal cavity is linked with the outside via the fallopian tubes, the uterus and the vagina, and there is evidence of migration of different substances in either direction. For example, malignant cells from ovarian carcinoma can be demonstrated in the posterior fornix of the vagina.1 After menstruation the gonococcus can penetrate the cervix and gain access through the uterus and tubes to the peritoneal cavity and ovaries.2 For pregnancy to occur, spermatozoa have to move up the uterus and the ova down the tube. Retrograde menstruation is also a well-known phenomenon. After insufflation, air and gases pass easily from the vagina into the peritoneal cavity up to the diaphragm. Radio-opaque contrast media are introduced with great ease through the uterus and

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Date received: 22 November 1978.
Reprint requests to: Professor M. Iturralde, Dept of Nuclear Medicine,
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Professor Medicine, Medicine, Medicine, Medicine, Medicine, Medicine, Medicine, Medicine,

tubes into the peritoneal cavity, and tubal patency is easily demonstrated during peritoneoscopy by injection of a dye through the cervix and into the tubes.

Does this also hold for inert chemical substances? Will a chemical substance deposited in the vagina later appear in the peritoneal cavity? Such migration could well explain the aetiological role of chemical substances in certain gynaecological diseases. It has already been suggested that talcum powder is one of these potentially dangerous inert chemical products. Electron micrographic slides of removed human ovaries have shown asbestos particles resting on them, and there is evidence that these particles originated from talc used to dust condoms.4

To demonstrate the upward migration of chemical substances we made use of radionuclide imaging and counting techniques.

MATERIAL AND METHODS

The subjects of this study were 24 adult women, both Blacks and Whites, from the Academic Hospitals of the University of the Orange Free State in Bloemfontein. All had been admitted to hospital for elective gynaecological surgical operations (Table I). The radionuclide procedure was explained and the necessary consent ob-

TABLE I. SURGICAL INDICATION AND OPERATIVE

	PROCE	DURE
lumber (of	
patients	Surgical indication	Operative procedure
4	Sterilization	Fimbriectomy
7	Ca. breast stage III	Bilateral salpingo- oöphorectomy
1	Ca. breast stage III	Hysterectomy and bilateral salpingo-oophorectomy
2	Postmenopausal bleeding	Dilatation and curettage
. 2	Postmenopausal bleeding	Hysterectomy and bilateral salpingo-oophorectomy
3	Menorrhagia	Dilatation and curettage
4	Menorrhagia	Hysterectomy and bilateral salpingo-oöphorectomy
1	Pelvic infection	Hysterectomy and bilateral salpingo-oöphorectomy

Procedure

The patient was placed in the supine position with the buttocks slightly elevated. The cervix and posterior fornix were exposed with a Cusco vaginal speculum and between 10 and 15 mCi of wmTc-labelled human albumin microspheres (HAM) in a volume of less than 3 ml was

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deposited in the posterior fornix. The patient was kept in this position for about 2 hours. The vulva was covered with a sanitary towel, and the legs were pressed together to prevent the radionuclide solution streaming from the vagina and thus lowering count levels.

In a few cases images were obtained, 4 and 24 hours after deposition of the radioactive tracer, with a Nuclear Chicago Pho/Gamma III scintillation camera (Figs 1 and 2). In most cases a count was performed on removed surgical specimens as a whole or separately on the uterus

and adnexae, for 1 000 seconds in a 12,7-cm well scintillation detector. In one case a piece of the anterior peritoneum, fluid from the pouch of Douglas and blood were also included in the count, to determine the possibility of reabsorption into the bloodstream from the vaginal mucosa.

Radiation exposure to the patients was low owing to the short half-life of ^{90m}Tc (6 hours), and in most cases it was almost negligible since the target organs had been surgically removed.

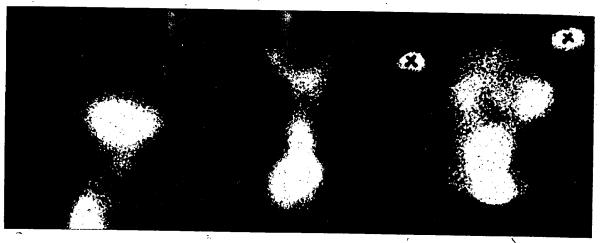


Fig. 1. Scintiphotographs showing positive **Tc-HAM migration: A — from the vagina to the uterus (4 hours after deposition); B — in both tubes (6 hours after deposition); C — reaching the peritoneal cavity and ovaries 24 hours after deposition (markers in the anterior superior iliac spines).

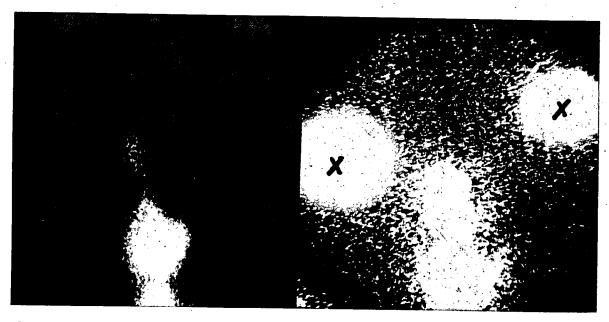


Fig. 2. Scintiphotographs showing negative ^{∞m}Tc-HAM migration: A — in the left tube (4 hours after deposition); the right tube is patent; B — in both tubes; 24 hours after deposition radioactivity remains in the uterus (markers in the anterior superior iliac spines).

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RESULTS

A total of 24 patients were examined. Because radionuclide material streamed away from the vagina in 3 patients, these cases were considered technically defective and were not included in the final analysis.

Of the remaining 21 cases 16 were positive, that is sufficiently high radioactivity levels were obtained as evidence of migration of the radioactive tracer to the uterus or the tubes and ovaries. The results were negative in 5 cases; in 2 of them the radioactive microspheres did not pass from the vagina to the uterus and in the other 3 there was no migration to the adnexae or fimbria. In the latter, it was impossible to determine radioactivity levels in the uterus because the latter was not removed.

TABLE II. SUMMARY OF RESULTS

		Radioactivity
		present (+) or
Patient	Tissue examined	absent (-)
1	Organ imaging	
	fimbria	Uterus, adnexa, fimbria +
2	Organ imaging	Uterus and adnexa +
3	Organ imaging	
	fimbria	Uterus, adnexa, fimbria +
4	Organ imaging	
	adnexa	Uterus +, adnexa +
5	Uterus and adnexa	Uterus +, adnexa
6	Endometrium	Endometrium —
7	Organ imaging	
	endometrium	Uterus and endometrium +
8	Organ imaging	
	endometrium	Uterus and endometrium -
9	Endometrium	Endometrium +
10	Uterus and adnexa	Uterus and adnexa +
11	Adnexa	Adnexa +
12	Uterus and adnexa	Uterus and adnexa +
13	Uterus and adnexa	Uterus, adnexa +
14	Endometrium	Endometrium +
15	Uterus and adnexa	Uterus +, adnexa
16	Adnexa	Adnexa +
17	Adnexa	Adnexa +
18	Fimbria	Fimbria —
19	Uterus and adnexa	Uterus and adnexa 🕂
20	Adnexa	Adnexa —
21	Adnexa	Adnexa —

In 14 out of 21 cases it was possible to measure radioactivity levels in the adnexa separately from the uterus. Nine of these showed marked radioactivity in the tubes and ovaries, while in 5 the radioactivity levels were not much higher than the background. In all 5 of these patients, severe tubal occlusion due to previous infection was confirmed by study of the removed specimens (Table II).

In 1 case, radioactivity levels in blood were not much higher than in the background, which indicated that radioactive tracer had not reached the adnexa through the blood supply owing to local reabsorption in the vaginal mucosa.

DISCUSSION

Evidence is available for migration of different substances in either direction within the female reproductive system between the peritoneal cavity and ovaries via the tubes, uterus and vagina, and the outside. Various living organisms actively follow this pathway in both directions. Gases, fluids, dyes and contrast media can easily be introduced from the vagina into the peritoneal cavity. If transit can take place so easily, it is probably the same for many chemical substances used for hygienic, cosmetic or medicinal purposes, many of which may have potential carcinogenic or irritating properties.

To prove this would be of great practical value, because migration of certain chemical substances could play an important aetiological role in gynaecological diseases and especially in carcinoma of the ovary.

We found the use of a particulate radioactive agent such as ^{100m}Tc-HAM with a size range of 30 - 50 μm to be a suitable and safe means of imaging and evaluating tubal patency and demonstrating the possibility of transit of particles from the vagina to the peritoneal cavity and ovaries.

Results obtained by this technique correlated with findings in the surgically removed specimens, thus demonstrating the accuracy of this radionuclide procedure.

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Exhibit 26

Ovarian Cancer and Talc

A Case-Control Study

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Opportunities for genital exposure to talc were assessed in 215 white females with epithelial ovarian cancers and in 215 control women from the general population matched by age, race, and residence. Ninety-two (42.8%) cases regularly used talc either as a dusting powder on the perineum or on sanitary napkins compared with 61 (28.4%) controls. Adjusted for parity and menopausal status, this difference yielded a relative risk of 1.92 (P < 0.003) for ovarian cancer associated with these practices. Women who had regularly engaged in both practices had an adjusted relative risk of 3.28 (P < 0.001) compared to women with neither exposure. This provides some support for an association between talc and ovarian cancer hypothesized because of the similarity of ovarian cancer to mesotheliomas and the chemical relation of talc to asbestos, a known cause of mesotheliomas. The authors also investigated opportunities for potential talc exposure from rubber products such as condoms or diaphragms or from pelvic surgery. No significant differences were noted between cases and controls in these exposures, although the intensity of talc exposure from these sources was likely affected by variables not assessed in this study. Cancer 50:372-376, 1982.

THE POSSIBILITY that ovarian cancer may be caused by exposure to certain hydrous magnesium silicates such as talc and asbestos has been raised by several researchers. The lack of epidemiologic studies regarding this hypothesis prompted us to investigate talc exposure in a case-control study of ovarian cancer.

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Methods

The cases studied were women with ovarian cancer, diagnosed between November 1978 and September 1981 and identified through the pathology logs or tumor boards of twelve participating hospitals in the Greater Boston area. The study was restricted to English-speaking residents of Massachusetts ranging in age from 18 to 80 years. During the study period, 297 eligible cases were identified. Physicians denied permission to contact their patients in 13 instances. Fourteen patients declined to participate, and 14 other patients had died or moved before they could be contacted.

For each of the 256 interviewed cases, slides of the surgical specimens were reviewed by two authors (W.R.W. or R.E.S). Eighteen cases were excluded as nonovarian primaries. Each ovarian tumor was classified according to the Histological Classification of Ovarian Tumors of the World Health Organization. The present analysis was restricted to 215 white women with epithelial cancers, including 39 with tumors of borderline malignancy and their matched controls.

Control cases were identified through the Massachusetts Town Books, annual publications that list residents by name, age, and address. Controls were selected randomly from those women who matched cases by precinct of residence, race, and age within two years. Additionally, it was required that a subject be excluded

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as a control if she had had a bilateral salpingo-oophorectomy, but subjects were not excluded because of prior hysterectomy or other types of pelvic operations. Women who had had pelvic operations were generally confident in their knowledge of whether their ovaries had been removed, but the nature of the operations could not be verified by hospital records in each instance. Women whose statements could not be verified were included or excluded on the basis of their recollection of the surgery. The 215 controls in this study were eventually obtained from a total of 475 potential controls identified through the Town Books. Fifty-six (12%) of the total could not be reached because they had moved, died, or had disconnected or unlisted phones. Twenty-nine (6%) of the total were ineligible because of a history of bilateral salpingo-oophorectomy, while 20 (4%) were of the wrong age or race or did not speak English. Of the total potential controls, 155 (33%) refused to participate. If the 215 cases are characterized as to ease of matching, 121 (56%) cases were matched with no refusals, 58 (27%) were matched after one refusal, and 36 (17%) were matched only after two or more refusals.

Interviews were conducted personally to assess a number of factors from the menstrual and reproductive history, medical and family history, and environmental exposures. This report will deal only with the results of several questions related to potential or definite talc exposure by way of contraceptive practices, operations, or perineal hygiene. Subjects were stratified by potential confounders described below, and adjusted relative risks associated with these exposures were calculated by the Mantel-Haenszel procedure as adapted by Rothman and Boice. To accommodate other confounders as well as the matched design in the data collection, logistic analysis for matched data as described by Breslow et al. was also employed.

Results

The average age (and standard error of the mean, SEM) for cases was 53.2 (1.0) years and for controls,

TABLE 1. Characteristics of Cases and Controls

		ses = 215)	Controls (Total = 215)	
Characteristic	No.	%	No.	
Educational level				
(completed				
college)	48	22.3	49	22.8
Religion (Roman				
Catholic)	126	58.6	128	59.5
Marital status				
(never married)	46	21.4	24	11.2
Nulliparous	78	36.3	39	18.1
Menopausal status				
(postmenopausal*)	137	63.7	129	60.0

Postmenopausal at time of diagnosis for cases or for interview for controls.

53.5 (1.0) years. Table 1 shows other characteristics of subjects. Controls were comparable to cases in educational level and religion. Cases and controls differed significantly in marital status and parity with parity being the more important discriminator between them. Sixty-four percent of the cases were postmenopausal at the time of diagnosis, whereas 60% of controls were postmenopausal. Of these, 15 cases and 20 controls had had an artificial menopause. Parity and menopausal status were considered important potential confounders in this analysis and were adjusted for as described above.

Relative risks associated with potential talc exposure from contamination on rubber products are explored in Table 2. Although surgical gloves of recent vintage are dusted with starch, talc contamination may still be found. Thus, a history of pelvic operations (appendectomy, cesarean section, hysterectomy, and other operations on internal genital organs other than bilateral salpingo-oophorectomy) was determined in cases and controls. Excluding operations associated with the diagnosis or treatment of the ovarian cancer among the cases, no excess in the occurrence of pelvic operations was noted. The greatest opportunity for talc exposure from surgery occurred before 1950, when talc was the

TABLE 2. Relative Risks (RR) for Common Epithelial Ovarian Cancers Associated with Potential Talc Exposure from Contamination on Rubber Products

	Cases		Controls				
Exposure	Total	No. (%) with exposure	Total	No. (%) with exposure	Crude RR	Adjusted RR*	95% Confidence limits
Pelvic surgery Pelvic surgery (prior	215	78 (36.3)	215	75 (34.9)	1.06	1.17	(0.76-1.79)
to 1950) Use of condoms† Use of diaphragm†	215 169 169	51 (23.7) 19 (11.2) 37 (21.9)	215 191 191	48 (22.3) 30 (15.7) 35 (18.3)	1.08 0.68 1.24	1.12 0.77 1.19	(0.69-1.82) (0.41-1.44) (0.69-2.05)

^{*} Adjusted for parity (nulliparous, parous) and menopausal status (pre- and postmenopausal).

[†] Restricted to subjects who had ever been married.

TABLE 3. Relative Risks (RR) Associated with Using Talc for Storage Among Diaphragm Users* by Duration of Use of Diaphragm

		Cases		Controls			
Duration of diaphragm use	1	No. (%) who used talc on diaphragm	Total	No. (%) who used tale on diaphragm	Crude RR	Adjusted RR†	95% Confidence limits
Total diaphragm use			——————————————————————————————————————				
less than five years Total diaphragm use	13	6 (46.2)	21	8 (38.1)	1.39	1.82	(0.42-8.00)
five or more years	27	16 (59.3)	19	11 (57.9)	1.06	1.23	(0.36-4.17)
All users	40	22 (55.0)	40	19 (47.5)	1.35	1.56	(0.62-3.88)

[•] Includes all women who used diaphragm regardless of marital status.

predominantly used dusting powder for surgical gloves. However, no significant excess of pelvic operations prior to 1950 was observed for cases.

The patients (cases) who, at sometime, had been married, chose condoms less frequently and diaphragms more frequently for contraception than the control group, but neither difference was statistically significant. Condom use is not necessarily associated with talc exposure. Not all brands of condoms are dusted with tale, and lubricants could affect the shedding of tale from the condom. Unfortunately, details on specific brands of condoms were not obtained. Similarly, talc exposure is not a necessary consequence of diaphragm use. We inquired specifically about the practice of dusting the diaphragm with talc for storage after use (Table 3). Among all subjects who had used a diaphragm, there was no significant excess of cases who regularly stored their diaphragm using tale, nor was any greater risk associated with this practice observed among women who had used the diaphragm for longer durations. Before the risk from this exposure can be adequately assessed, greater detail is needed including frequency of use and whether the powder was washed off prior to use. Furthermore, contraceptive jellies used with the diaphragm could affect the transport of talc in the genital tract.

Hygienic practices involving talc were also studied. Specifically, we inquired whether women had regularly used talc as a dusting powder on the perineum or regularly dusted sanitary napkins with talc (Table 4). Ninety-two (42.8%) of the cases had talc exposure by either or both of these routes compared with 61 (28.4%) of the controls. The adjusted relative risk was 1.92 (P < 0.003) with 95% confidence limits of 1.27-2.89 compared to subjects who had neither exposure. Sixty (27.9%) cases and 48 (22.3%) controls had either used tale for dusting or on napkins but not both. This difference yielded an adjusted relative risk of 1.55, which was of borderline significance (P = 0.06). The greatest risk occurred in women who had both exposures (use on the perineum and on napkins) compared to women who had neither exposure. Thirty-two (14.9%) of cases were in this category compared with 13 (6.0%) controls, for an adjusted relative risk of 3.28 (P < .001) and 95% confidence limits of 1.68-6.42. The histologic characteristics of tumors developing in women with perineal exposure to tale did not differ significantly from those in women without perineal exposure to talc (Table 5). In addition, the proportion of cases with tumors of borderline malignancy was identical among those with and without perineal exposure to talc. Twenty-two (18%) of 123 cases without the exposure had tumors of bor-

TABLE 4. Relative Risks (RR) for Common Epithelial Ovarian Cancers Associated with Tale Exposure in Perineal Hygiene

				Types of perineal expos	ure
	No perineal exposure	No perineal Any perineal	As dusting powder but not on napkins	On napkins but not as dusting powder	Both on napkins and as dusting powder
Cases					
(Total = 215) Controls	123 (57.2%)	92 (42.8%)	43 (20.0%)	17 (7.9%)	32 (14.9%)
(Total = 215)	154 (71.6%)	61 (28.4%)	34 (15.8%)	14 (6.5%)	13 (6.0%)
Crude rr	1	1.89	1.58	1.52	3.08
Adjusted RR*	-	1.92	1.5	55	3.28
95% confidence limits		(1.27-2.89)	(0.98 -	2.47)	(1.68-6.42)

Adjusted for parity and menopausal status.

[†] Adjusted for parity and menopausal status.

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derline malignancy compared to 17 (18%) of 92 with the talc exposure.

Discussion

The argument linking tale and ovarian cancer includes four elements: the chemical relationship between tale and asbestos, asbestos as a cause of pleural and peritoneal mesotheliomas, the possible relation between epithelial ovarian cancers and mesotheliomas, and the ability of tale to enter the pelvic cavity. The mineral tale is a specific hydrous magnesium silicate chemically related to several asbestos group minerals and occurring in nature with them. Generic "tale" is seldom pure and may be contaminated with asbestos, particularly in powders formulated prior to 1976.

Epidemiologic studies have clearly linked lung cancer and pleural and peritoneal mesotheliomas with asbestos exposure. 10 An excess of similar pulmonary lesions has been reported in talc workers and seems to be correlated with the amount of asbestos contamination in the talc deposits worked.11 Graham and Graham' were able to induce ovarian neoplasms in guinea pigs with asbestos and suggested that ovarian cancer could be related to asbestos exposure, noting the similarity between mesotheliomas and ovarian cancers. Parmley and Woodruff¹² further emphasized this similarity and popularized the pelvic contamination theory, which proposed that environmental carcinogens might enter the pelvic cavity via the genital tract. Years earlier it had been observed that inert carbon particles placed in the vagina immediately prior to hysterectomy could be recovered from the fallopian tubes.13 Although greeted with skepticism, the finding of talc particles embedded in normal and abnormal ovaries suggests that talc is a substance that can enter the pelvic cavity via the vagina.2

Although no consensus concerning the risks of talc has emerged from letters, editorial and articles, 3,14-16 participants in the discussion have agreed upon the need for epidemiologic studies of ovarian cancer and talc exposure. In this case-control study of ovarian cancer of the epithelial variety, we investigated several sources of potential talc exposure. Among these, the only significant finding was an association between ovarian cancer and hygienic practices involving the use of talc on the perineum. It is especially notable that women who regularly had both dusted their perineum with talc and had used it on sanitary napkins had more than a three-fold increase in risk compared to women with neither exposure. Several potential biases must be considered in interpreting this association.

The observation by Wynder et al. 17 that menstrual characteristics may differ between women with ovarian cancer and controls might suggest that such differences may confound the association between perineal use of

TABLE 5. Characteristics of Ovarian Cancer in Women with and without Perineal Exposure to Talc

	No perineal use of talc	Any perineal use of talc
	No. (%)	No. (%)
Serous Mucinous	66 (53.7) 16 (13.0)	45 (48.9) 14 (15.2)
Endometrioid and clear cell	32 (26.0)	24 (26.1)
Other and undifferentiated	9 (7.3)	9 (9.8)
Total	123 (100)	92 (100)

talc and ovarian cancer. We found that menstrual characteristics of cases and controls were virtually identical in this study. Fifty-three (24.7%) cases complained of moderate or severe dysmenorrhea compared to 56 (26.0%) controls. Twenty-five (11.6%) cases complained of irregular periods compared to 32 (14.9%) controls. The average numbers (and SEM) of days of flow and cycle length were, respectively, 4.9 (0.1) and 28.9 (0.3) days for cases and 4.9 (0.1) and 29.6 (0.3) days for controls.

Since entry of talc into the pelvic cavity is prevented by hysterectomy or tubal ligation, it might also be argued that the inclusion of subjects with pelvic surgery in the analysis may obviate any association between talc and ovarian cancer. It should be noted that such surgery generally occurred near the end of reproductive life for both cases and controls, probably after most significant talc exposure had already occurred. The exclusion of such subjects from the analysis did not substantially alter the observed associations. For example, the adjusted relative risk for the use of talc both on the perineum and sanitary napkins was $2.79 \ (P < 0.003)$ in the group without pelvic surgery compared to 3.28 observed for the entire group.

In terms of other confounders, the association persisted after adjustment for menopausal status and parity. We also applied multivariate logistic regression for paired observations. The maximum likelihood estimate of relative risk associated with any perineal use of talc was 1.61 (P = 0.03) with 95% confidence limits of 1.04-2.49 after simultaneous adjustment for religion, marital status, educational level, ponderal index, age at menarche, exact parity, oral contraceptive or menopausal hormone use, and smoking.

Our sample of cases represents more than 50% of ovarian cancer cases diagnosed in Boston residents in the study period. Therefore, it is difficult to conceive of a plausible bias in the selection of cases that would yield this excess use of talc. There is reason for concern that the high refusal rate among the controls may have introduced a selection bias among the controls. But,

when we restricted the analysis to the 121 cases who were matched without a control refusal, we again found a significant association between talc use and ovarian cancer. For women who had used talc both in dusting and on the perineum we found an adjusted relative risk of $2.44 \ (P < 0.05)$. Interviewer bias is also unlikely to explain the association. Of the 18 women who were initially interviewed as ovarian cancer cases but later excluded as having metastatic tumors to the ovary, only one (5.6%) had both perineal and napkin exposure as compared with 15% in cases and 6% in controls.

Experimental data which might bear on the carcinogenicity of talc come primarily from models using pleural implantation of various minerals in rats. These data suggest that carcinogenicity is dependent primarily upon the shape of the particles with long thin fibers such as those occurring in crocidolite asbestos being most carcinogenic. Talc consists primarily of plates but may contain fibers, although voluntary guidelines to limit the content of asbestisform fibers in consumer talcums were proposed by the cosmetics industry in 1976. 19

If talc is involved in the etiology of ovarian cancer, it is not clear whether this derives from the asbestos content of tale or from the uniqueness of the ovary which might make it susceptible to carcinogenesis from both talc and other particulates. With ovulation entrapment of the surface epithelium of the ovary into the ovarian stroma occurs. If present, tale or other particulates might be incorporated into these inclusion cysts. Apparently implantation of foreign bodies into the lumens of epithelial lined organs provides a favorable environment for carcinogenesis.²⁰ Alternatively, talc might serve to stimulate entrapment of the surface epithelium and act in the same way that "incessant ovulation" has been proposed as an etiologic factor for ovarian cancer.21 Given the histologic and clinical diversity of ovarian cancer, tale exposure is unlikely to be the only cause. Undoubtedly, reproductive experiences such as pregnancies and, perhaps, oral contraceptive use play a role in its etiology.21-23 The possibility that talc exposure interacts with these variables deserves further investigation.

It is hoped that this report will stimulate further study of tale exposure in relation to ovarian cancer. Animal studies would be helpful to determine whether and under what circumstances ovarian tumors may be induced by various tale preparations. Epidemiologic studies should focus on opportunities for excessive vaginal contamination with tale such as when it is repeatedly used in perineal dusting powders or sprays and in or on tampons, sanitary napkins, or other products intended for

intravaginal use. More precise details on the exact nature and frequency of the exposure and the amount and specific brand of powder used are essential. Opportunities for talc exposure are widespread and pervasive,²⁴ but that should not discourage epidemiologists from studying this potentially important exposure in relation to ovarian cancer.

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Exhibit 27

Run

Jones 1986 P. 5/9

TECHNOLOGICAL FORECAST

- POWDERS -

<u>Powders</u> refers to various inorganic and organic compounds that are applied to baby and adult skin, that are generally considered inert, and that provide skin benefits mainly from their physical characteristics, rather than their chemical compositions. This forecast does not cover medicated powders, where the powder is a vehicle for an active ingredient such as an anti-diaper rash agent.

A. PRODUCT BACKGROUND

1. Attribute Factors

User end benefit attributes and product attributes have been defined for both baby and adult needs.

Baby Adult Attribute: End Benefits - Dry slip: softness, smoothness, lubricity - Wet slip: ability to convey the same tactile feel of softness, smoothness, slipperiness as found with powder on dry skin After bath, After bath, shower during diaper change - Absorbency: take up water/wetness - Adhesion (Not considered Vertical surface retention, important) esp. when applying after showering. - Reduce Friction: prevent chafing & rubbing - Flow: ease of dispensing Product - Spreadability: ease of application to the skin

Safety Factors

Safety of cosmetic powders has been a concern, especially among health professionals. They have decided that powders provide no health benefit. Therefore, the potential for harm from respirables or accidental over exposure should be avoided. Mothers are now being advised not to use baby powder, especially talc baby powders.

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There is also a growing concern/public awareness about airborne pollutants, including dust and other respirable particles. As this issue gains more attention, products (such as shaker top dispensed cosmetic powders) which potentially contribute to airborne dust could become expendable risks.

Retrospective studies have implicated talc use in the vaginal area with the incidence of ovarian cancer. While a CTFA sponsored animal study has shown that talc does not migrate, this concern does affect use of powders by adult women.

Based on the scientific evidence and the extensive experience in use, we believe that cosmetic powders are safe for use for babies and adults.

Normal use of cosmetic powders has not been related to safety concerns for humans.

The relative importance of these attributes has not been established quantitatively. Thus a single performance index combining all these attributes is not available. The following hypothesis about the preference hierarchy has been used:

Baby use = Dry slip + wet slip absorbency flow spreadability

Adult use = Dry slip + wet slip absorbency flow adhesion spreadability

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last

There are few quantitative, objective laboratory test methods established for measuring these attributes. Product acceptability has normally been measured through expert and consumer subjective opinions against known standards. These are:

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Attribute

Test Method

- Dry slip (smoothness, softness, etc.)

Subjective feel against Windsor 66 standard (usually Johnson's Baby Powder)

- Wet slip

Same as above

- Absorbency

- Adhesion

Subjective opinion

- Flow

a. Rotating shaker: gm of powder dispensed/unit of time

b. Angle of repose: angle in degrees of mound of powder dispensed from funnel

- Spreadability

Subjective feel and observation of coverage against standard

- Respirable Safety

Dusting test using impact meter:
mg of powder under 10
microns/meter³ of air per gm of
powder

Technical Considerations

The physical mechanisms of actions, rather than the biological, provide the basis for attributes. In general, powders are particles of granular, spherical or platelet shape and can be found naturally or synthesized.

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POWDERS

Material	Shape	Water Affinity
Natural		
Talc	Plates - Granular	Hydrophobic (water & oil wettable)
Clays	Granular	Hydrophilic
Chalks	Granular	Hydrophobic (wettable)
Graphite	Plates	Hydrophobic
Graphice	114665	njurophobie
Organic		
Starches	Spherical	Hydrophilic
- Corn	•	
- Potato		•
- Rice		
- Tapioca	the second of th	
- Modified	Distant - embaras	Urrdmanhilia
- Modified ,	Plates - spheres	Hydrophilic
		to hydrophobic
Cellulosics	Fibers	Hydrophilic
Synthetic		
Nylon	Plates - Granular	Hydrophobic
		to hydrophilic
Polyesters	Plates - Granular	

All particle shapes can provide surfaces which give the dry slip feel. Wet slip occurs when hydrophobic materials exhibit surface wetability, which still allows particles to slide over each other.

Because of the smooth surfaces, adhesion is dependent only on van der WAALS forces at the molecular level between the powder particle and the skin substrate spreading powders on the skin greatly improves adhesion. Because there are relatively weak forces, adhesion when powder is sprinkled on dry skin is low.

Flow and spreadability are affected by the particle shape. Spherical particles have the least surface and contact areas, and so have the lower interparticle attraction. Platelets expose more surface area and offer significantly more contact areas...thus greater interparticle attractions. Thus, flow is generally greater with spherical powders. On the other hand, the ability of platelets to slide over one another helps overcome interparticle attraction. So, when the spreading forces are in the same plane as the platelet direction, spreadability differences between spherical and platelet particles are not as noticeable as flow differences.

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Potential Respirable Hazard is related to chemical composition and particle size.

Any shape particles can be respirable. The key issues are:

- Do the particles remain or are they exhaled? on trapped to sevel level
- If they remain, are there other exit mechanisms from the body?
 (Such as transport through a circulatory system and excretion.)
- If not, does the physical presence a chemical composition induce a physiologic reaction that is negative?
- Do the particles translocate to another site where a different and negative physiologic reaction can take place?

The current body of scientific literature support that cosmetic powders are different from asbestos and silica which have known toxicity.

Absorbency is related to the chemical associates frequently found with the pure talc powders and to surface wetability properties. When talc has small levels of alkaline carbonates, it will also show some absorbtivity. The starches wet and can absorb water. Wetability of all powders can be increased through the use of surfactants.

3. Attribute Limits

Only some of the functional and product attributes use objectively measured values (absorbency, flow, and toxicity [level of respirable dust]). Determining the limits of the other attributes must, at this time, be done qualitatively. The results of numerous consumer tests are summarized:

Dry Slip (Smoothness, softness, lubricity)

None		Range			Beyond	
	Corn starch	JBCS Diaperene	JBP	"Super"	talc	
Wet S	Slip					
None		Consumer No	ticeabi:	lity		
Cor	nstarch	Tal	c			

Consumer Expectation

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0	0.35	0.85	1.2	1.7	3.0	·
V66 Falc JBP	Other Talc Products Diaperene	JBCS	JBCS With ARD	ZEASORB	Shower to Shower	cm ³ /gm/5 min (free swell) Cellulose Super Absorbents
Adhesio	n (Dry Skin)					
					Good	
		Most Po Simil				
Flow						
None	0.16	0.4		0.95	1.38	
	Shower To Shower	Talc JBP		Diaperene	JBCS	Rotating shaker gm/time
Spreada	bility (Dry Sk	in)				
Poor					Good	
	Other Talc Products	Shower to Shower		cs	,	uivalent spherical de
Potenti	al Inhalation	Hazard of	10 micros	raud hele	nr ESD (squ	unalent spherical di
0 .	2		10	Very dus	ty mg/m ³	Threshold Limit Value
	Talc JBP	á	imit for all nuisa dust in workplace	nce		

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There are trade-offs among all these attributes. For example, as absorbency or adhesion are increased, these wet slip and flow properties are increased. The four key attributes are:

Absorbency

Dry Slip + 0 +Adhesion

Wet slip

Currently the two major powders - cornstarch and talc - map rather differently.

Cornstarch

Talc

Current consumer knowledge suggest these different products are perceived quite differently but both are accepted cosmetic powders.

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B. MARKET DYNAMICS

Consumer

Being written

C. TECHNOLOGICAL CHANGE FORECAST

Remaining technical potential of current technologies estimates.

Dry Slip Wet Slip Super J&J talc talc Cornstarch Expectations

J&J talc, Cornstarch

E

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P Absorbency

P

Adhesion

Before Froth Talc w/surfactants

Liquid vehicle, talc

Froth Flotation

Cornstarch as is

Dry talc, cornstarch

Ε

Ε

after froth flotation

2. Technical Potential of Emerging J&J Technologies

New technologies which have been and are being considered include:

Processing Technology

The ability to further segregate the current cosmetic talc stream into narrow particle size ranges could provide optimized performance factors. A patent issued to J&J protects certain processes for segregation into what we've termed "super talc." Whether the material provides desired consumer benefits is undetermined.

Cornstarch process alterations, especially moisture level control and drying time/temperature, have been tried as means of altering feel and absorbency. Changes in absorbency are achievable but feel is only marginally affected.

Cornstarch which has been acted upon by enzymes is transformed into very soft, highly absorbent dusting powder. The process is not commercial however, and is not economically feasible.

Additives Technologies

Powder Additives

It is possible to alter the characteristics of cosmetic powder products with powder additives. Flow improving agents, such as tricalcium phosphate in cornstarch, are an example. Considerable effort has been directed to find other cornstarches which improve the current product. "ARD" (highly absorbent, pre-gelled cornstarch) is an example. J&J has a patent for addition of this type of cornstarch to both talc and cornstarch powders.

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Other potential additives include cellulosics, modified (chemically treated) starches, synthetic powders and super absorbent materials. While some have been shown to improve cornstarch characteristics, labeling and safety concerns have limited our pursuit of the technologies.

Non-Powder Additives

Liquids or semi solids such as petrolatum, mineral oils, and carbowaxes have been applied to talc. Benefits of the addition include improved fragrance retention, reduced respirable particles, reduced dustiness and improved spreadability and adhesion. The addition at meaningful levels causes reduced powder softness and lubricity. U.S. and foreign patents have been issued to J&J covering some of these findings.

- 3. Technical Potential of Other Unmarketed Technologies
 - Biocellulose

D. KEY STRATEGIC ISSUES

Consumer Attributes

- Are the attribute mix and level of preference the same for a baby powder vs. an adult powder?
 - Absorbency needs different?
 - Adhesion needs more appreciated with adults?
 - Is the unique wet slip of talc an advertisable benefit for adults?
 - Can quantitative test methods be developed for all high attributes?

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Technical Issues

- Can synthetic polymers be made to mimic natural powders? Can particle size and shape be better controlled with a synthetic process? Is this a route to insuring no respirable problem particle sizes? Can synthetics be made wettable?

POWDERS NEXT STEPS

- Check attribute values for J&J cornstarch and talc and adjust on diagrams, if needed. Determine if any laboratory notebooks can provide numerical values (Worksheet 1).
 - 2. Bring together any data on competitive cornstarches and talcs (Worksheet 1). If any attribute values are significantly different, decide why, based on composition of competitive product. For example, if Vaseline talc is more absorbent than J&J, is the chemical composition of Vaseline talc known? Does it have more natural carbonate associates in it?
 - Institute a literature search and bring together any in-house data or knowledge about the attribute values of other powders, e.g. clays, chalks, cellulose polymers (Worksheet 1).
 - 4. Refine composition, consumer needs, and mechanisms frameworks.
 - List barriers that explain differences between theoretical limits and practical levels (Worksheets 2-4).
 - 6. Analyze market dynamics in terms of changing market positions between types of powders and brands of powders, and implications to product characteristic preferences. For example, if cornstarch has been growing at the expense of talc, what benefit might users be seeking?
 - 7. Review patents of past 5 years in powders. Segment by company, by product, by year. Answer these issues:
 - What are all the alternative technologies?
 - Are companies working across several technologies?
 - Is their work continuous?
 - Do the same names repeat on related patents?
 - Do product or process patents dominate?
 - What benefits are being sought? Are new practical levels of performance being reached? To reach a new level, how much effort was put in?

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. :

- Identify any other unmarketed technologies, not found in patent estate or J&J BPC active R&D, through other sources.
- Develop point-of-view on which areas have limiting mechanisms that are too difficult to change or overcome.
- 10. Develop point-of-view on remaining technical potential of other technologies to reach new levels of performance for various attributes.
- 11. List all areas in which knowledge is incomplete. Identify actions that could be taken if knowledge was perfect. Rank actions according to likely economic benefits. Develop list of strategic issues that should be pursued.
- 12. Draw conclusions. Make recommendations as to R&D actions.

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CONCLUSIONS

- 1. J&J is probably working at the consumer desirable limits of cosmetic powders technology:
 - nearly one hundred years of talc based powder experience has kept us the market leader.
 - vertical integration, through ownership of the Windsor mine in the U.S. and major purchase agreements with 11 other world sources, has enabled us to define cosmetic grade talc.
 - Johnson's Baby Powder is the standard for consumer comparison in the U.S., it is preferred over all other cosmetic powders.
 - cornstarch used in cosmetic powders is a commodity food stuff in the U.S. Natural structural limitations and the desire to avoid chemical modification, preclude direct improvements in the current technology.
- 2. J&J has limited its exploration of new technologies with several constraints:
 - labeled ingredients must be familiar to consumers and must be perceived as safe for baby.
 - safety concerns have restrained investigation of synthetic powder substitutes.
 - questions and challenges to current product safety have led to defensive protectivism of current technology.
- 3. J&J must pursue technologies which will provide a proven health benefit for use of powders on babies.
 - Johnson's Baby Powder sales are declining along with the overall cosmetic powders market in a classic mature product curve.
 - health professionals recommend against powder use on infants because potential risk exist and there are no health benefits.
 - while sales of powders for use on baby continue, it is inevitable that a "last straw" safety concern will lead to abandonment of powder use, unless health benefits outweigh the risks.

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- 4. The choice of which new technologies to pursue cannot be forecasted now because:
 - consumer needs are not clearly defined.
 - technologies which could provide the desired consumer benefits may not have been defined.
- 5. It is possible to hypothesize that:
 - pursuit of technologies which would create talc based powders of higher interest (than JBP) to adults could be profitable.
 - major effort should be expended to prove a health benefit for "cosmetic" dusting powders. Effort should probably be directed at cornstarch technologies since the limits of market penetration and potential benefit have not be approached.
 - technologies which control or prevent potential safety hazards must be pursued to stifle the negative recommendations of health professionals. Accomplishments in this area will most likely <u>not</u>, by themselves, alter the declining powders use trend.

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Copy to Man/Lisa (By Noon)

- JOHNSON'S BABY POWDER -8/5/92

Major Opportunities

- 1. Continue to fully leverage the diaper rash claim against JBP cornstarch.
 - Current household usage on Johnson's Baby Powder Pure Cornstarch has declined from 13% in 1989 to 8% in 1991. Continue to support diaper rash claim in order to rebuild product usage.
- 2. <u>Investigate ethnic (African American, Hispanic) opportunities to grow the franchise.</u>
 - Johnson's Baby Powder has a high usage rate among African Americans (52.0%) and among Hispanics (37.6%). Additionally usage indices are high for African American and Hispanic females for JBP talc (139 and 101 respectively). Hispanic females also have a high index (151) against JBP cornstarch. The brand can increase volume in 1993 by targeting these groups. The brand will institute an adult hispanic much a program and potentially lounch an adult Black print leftort.

Major Obstacles

1. The franchise faces weakness on several key skus in factory sales and in consumption.

	<u>YTD % +/- YAG</u>	
	JBP	JBP/CS
9 OZ	-35.6%	-26.4%
14 OZ	-9.7%	+6.3%
24 OZ	-14.8%	-31.2%

- JBP 4 OZ is down -6% in all outlets; Drug distribution down 5 points versus YAG.
- JBP 9 OZ is down -13% due to Food and Drug outlets; Drug distribution down 3 points versus YAG.
- JBP 14 OZ is down -11% due to declines in Food and Drug outlets.
- JBP 24 OZ is up +1%; a -10% decline in Drug has been offset by a +9% gain in Mass; Drug distribution is down 7 points versus YAG.
- JBPCS 9 OZ is down -8% due to declines in Food and Drug



- JBPCS 24 OZ is down -7% due to declines in Drug and Mass; Mass distribution is down 9 points.
- To correct this trend, renewed focus is needed on 9 oz and 24 oz sizes of the franchise. (Focus on building distribution in Drug and making these skus part of 1993 Ring Club.)
- 2. Negative publicity from the health community on talc (inhalation, dust, negative doctor endorsement, cancer linkage) continues.
 - Investigate the addition of an additive to reduce dust.
 - Encourage the reduction of dust in use by developing advertorial copy and media strategy to promote proper way to powder and diaper a baby.
- 3. Little differentiation on JBP tale and cornstarch versus private label.
 - Implement temporary price roll-backs on JBP and JBPCS (using #SP funds) to achieve merchandisable price points and attack private label in the absence of value added news king term. (Pd5,Pd8)
 - Investigate JBP medicated line extension as news for second half 1993/1994.

 - -Evaluate "time release" formula and /or oatmeal as second half 1993 news.
- 4. Mennen competitive coupon pressures strong YTD.
 - Participate in broad based infant coupon programs to combat pressure from Mennen (Period 2 FSI).
- 5. Talc is adult focussed business in baby focussed line.
 - Longer term, investigate moving brand to a different franchise.
 - short term, supplement infant plan with periodic adult promotional apport
 - Peniod S" Adul" FSI

JNJ000000081-JNJ000000083

CONSUMER PRODUCTS WORLDWIDE
SKILLMAN, NJ 08558-9418

January 24, 1995

SUBJECT: Proposal for New Talc Study

TO: J. Neal Matheson

This recommends that J & J sponsor a new, highly structured epidemiology study focused to examine the possibility that cosmetic talc use can lead to increased risk of ovarian cancer.

Background

Six epidemiology studies of ovarian cancer have included talc use questions and attempted to make correlations between talc exposure and incidence of ovarian cancer. In each case, this hypothesis had a very low odds ratio (< 2.0). However, the possibility that there is a stronger association led to a study specifically focused on talc use on the perineum and ovarian cancer.

Harlow, et al (1992) reported an overall odds ratio of 1.5, but also identified a high application rate subset of subjects which had a 2.8 OR. Harlow described this group as having a threefold risk of getting ovarian cancer.

At the FDA/ISRTP workshop last January, Harlow presented his work in a peer reviewed forum. The methodology and validity of his conclusions were most rigorously challenged by Dr. Ernst Wynder, a highly respected epidemiologist and a founder/President of the American Health Foundation.

Following the workshop, Dr. Wynder approached me to ask if J & J would be willing to sponsor better research on the subject. I responded that we might if the research brought new information to the field. Conducting one more routine epidemiology study was of no interest to us.

Wynder responded in October that he was ready to meet to discuss a potential study design. John Hopkins and I met with the group and upon detailed review of the protocol are impressed by the proposed study. Since then, I've had feedback from Marjorie, Bill Ashton, and Steve Phillips. We believe it is a well-controlled, potentially significant study which should replace all others as the definitive treatise on this issue (complete proposal attached).

What we will learn

The study will more comprehensively study the possibility by:

- 1. Carefully evaluating the epidemiology of controls (characteristics of women who use talc powders and why).
- 2. Obtaining detailed information on the duration and frequency of perineum exposure and the type of powder used.

- 3. Considering the latency period between exposure to talc and the diagnosis of ovarian cancer.
- 4. Considering the woman's history of tubal ligation.
- 5. Adjusting statistically for the major known risk factors for ovarian carcinoma.
- 6. Considering the difference in use of talc products pre- and post-1976. This should clarify the possibility that "asbestos contaminated" talc reported to have been on the market prior to 1976 was a causative factor.
- 7. Minimizing response bias by reducing "risk bias" and recruiting more appropriate controls.
- 8. Assessing potential occupational exposure to talc.

All these improvements over previous studies will clearly provide more specific, projectable results.

Possible Outcomes

J & J, as a sponsor of this study, will have the opportunity to participate in some aspects of the study design. We will not control the conduct of the interviews, the results analysis, or potential publication of the results. (Detailed aspects of our involvement and sharing of findings will be worked out after agreement to proceed.)

Obviously, the study could prove the expected - no correlation - or, the unexpected - one or more correlated aspects. We should expect any result to be published.

Cost and Timing

The study is expected to require 2+ years to complete and report 171 cases and 171 controls. The proposal shows a start date of March 1, 1995 and completion late 1997.

Costs proposed (we have not negotiated yet) by AHF are as follows:

3/1/95 to 2/28/96 \$176,911 3/1/96 to 2/28/97 \$183,988 3/1/97 to 12/31/97 \$37,754

Total \$398,653

There will be J & J manpower costs associated with study design, monitoring, and reporting.

J & J History with AHF

We have considered Dr. Wynder to be a friend through contact on previous issues. McNeil Consumer has sponsored epidemiology work by AHF. Their performance was excellent, the findings did not support the hypothesis.

Suggested Next Steps

- Your agreement in principle to proceed
- Executive review of study plans presented by Dr. Wynder and study team
- Negotiations of cost and J & J involvement details
- Final agreement/signed proposal
- Study design finalization
- Begin study by mid-year 1995

This requests your approval to proceed in principle and schedule a review with AHF.

Donald F. Jones

es attachment

cc:

- C. Hammes
- J. Hopkins
- J. Leebaw
- M. McTernan
- J. O'Shaughnessy
- K. Schroeher
- W. Slivka

0024.dj

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       IN THE UNITED STATES DISTRICT COURT
2
     FOR THE EASTERN DISTRICT OF NEW JERSEY
3
4
     IN RE: JOHNSON &
5
     JOHNSON TALCUM POWDER
     PRODUCTS MARKETING,
6
     SALES PRACTICES, AND : NO. 16-2738
     PRODUCTS LIABILITY
                             : (FLW) (LHG)
7
     LITIGATION
8
     THIS DOCUMENT RELATES
     TO ALL CASES
9
10
11
               September 25, 2018
12
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14
                 Videotaped deposition of
    JOSHUA E. MUSCAT, Ph.D., taken pursuant
15
    to notice, was held at the law offices of
    Drinker Biddle & Reath, One Logan Square,
16
    Philadelphia, Pennsylvania, beginning at
    9:45 a.m., on the above date, before
17
    Michelle L. Gray, a Registered
    Professional Reporter, Certified
18
    Shorthand Reporter, Certified Realtime
    Reporter, and Notary Public.
19
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                 Deposition
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```
1
                 Okay. Now, going back to
           0.
2
    the American Health Foundation. In this
    first time frame, in the 1990s, leading
    up to the filing of the 2000 NTP report,
5
    the American Health Foundation had been
6
    under a consulting agreement with J&J on
7
    issues related to talc and ovarian
8
    cancer, true?
9
                 MR. HEGARTY: Objection to
10
           form.
11
                 MR. HUDSON: Objection to
12
           form.
13
                  THE WITNESS: I'm not
14
           familiar with that.
15
    BY MR. TISI:
16
                 You don't know whether or
17
    not Dr. Wynder had signed a consulting
18
    agreement with Johnson & Johnson?
19
                 MR. HUDSON: Objection to
```

THE WITNESS: No.

form.

22 BY MR. TISI:

20

- Q. You've actually met with,
- during that time frame, in the 1990s, you

- actually met with Johnson & Johnson 1 2 people on talc-related issues, correct? 3 That's correct. 4 Okay. In fact, you --5 actually, we'll talk about that. You 6 actually drafted a proposed study on that 7 issue, correct? 8 That's correct. Q. A case-controlled study, 9 10 correct? 11 Α. That's correct. 12 A \$400,000 study on the 13 issue that had been discussed in the
- 14 medical community for decades before,
- 15 correct?
- 16 MR. HEGARTY: Objection to
- 17 form.
- 18 THE WITNESS: I don't know
- 19 how -- whether it was discussed
- 20 for decades. But we did draft a
- 21 proposal.
- 22 BY MR. TISI:
- 23 Q. They never funded it, did
- 24 they?

```
1
                  No.
           Α.
2
                  They never actually gave you
           Q.
3
    a formal answer, did they?
4
                  MR. SILVER: Objection to
5
            form.
6
    BY MR. TISI:
7
                  To whether or not they would
           0.
8
    fund it?
9
                  I never received a formal
           Α.
10
    answer.
11
                  You just kind of left it
           Q.
12
    kind of hanging out there, right?
13
                  MR. HUDSON: Objection to
14
           form.
15
                  THE WITNESS: It was -- I
16
           mean I'm sure that information was
17
           transmitted to the American Health
18
           Foundation but not to me
19
           personally.
20
    BY MR. TISI:
21
                  Okay. Well, we looked all
22
    over the document. We couldn't see any
23
    place where they denied funding, that
24
    they decided that they weren't -- that
```

```
they informed anybody --
1
2
                  Okay.
           Α.
3
                  -- about that.
            Q.
4
                  MR. HEGARTY: Objection to
5
            form.
6
                  MR. HUDSON: Objection to
7
            form.
8
    BY MR. TISI:
9
                  But as far as you know, they
10
    kind of, throughout the 1990s, they kind
11
    of kept the issue of whether they would
12
    fund that study out there, and it was
13
    just something you never got an answer
14
    to, correct?
15
                  MR. HUDSON: Objection to
16
            form, asked and answered.
17
                  THE WITNESS: I don't
18
           remember an exact date.
19
                  There was obviously a point
20
           where we knew it was not going to
21
           be funded so...
22
    BY MR. TISI:
23
                  But you continued to speak
24
    with folks at J&J on talc-related issues,
```

```
1
    correct?
2
                  MR. HEGARTY: Objection to
3
           form.
4
    BY MR. TISI:
                  In the -- in the 1990s?
5
           0.
6
                  I don't have any specific
           Α.
7
    recollection.
8
                  Do you know John Hopkins?
           0.
9
           Α.
                  Yes.
10
                 You met with him, correct?
           0.
11
                  He was at the meeting in
           Α.
12
    Skillman, New Jersey.
13
                  And you communicated back
14
    and forth, letters with him in the 1990s
15
    on issues related to epidemiology and
16
    talc?
17
                  MR. HEGARTY: Objection to
18
           form.
19
                  THE WITNESS: I don't recall
20
           specifically.
21
    BY MR. TISI:
22
                  You don't remember him
23
    e-mailing -- talk -- sending you letters
24
    and you going back and forth about the
```

	156640	
		296
1		BANKRUPTCY COURT
2		T OF NORTH CAROLINA TE DIVISION
3	IN RE:	: Case No. 21-30589-JCW
4	LTL MANAGEMENT LLC,	: Chapter 11
5	Debtor,	: Charlotte, North Carolina Friday, November 5, 2021
6		: 9:04 a.m.
7		
8	LTL MANAGEMENT LLC,	: AP 21-03032-JCW
9	Plaintiff,	:
10	v.	:
11	THOSE PARTIES LISTED ON APPENDIX A TO COMPLAINT and	:
12	JOHN AND JANE DOES 1-1000,	:
13	Defendants.	:
14		
15	T/O	LUME 2
16		OF PROCEEDINGS
17		BLE J. CRAIG WHITLEY, BANKRUPTCY JUDGE
18		
19	Audio Operator:	COURT PERSONNEL
20		
21	Transcript prepared by:	JANICE RUSSELL TRANSCRIPTS 1418 Red Fox Circle
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25		

	156641	297
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KUFFNER - CROSS 396 the focus of your testimony this morning. 1 We gave the Court a brief timeline of what happened during 2 your tenure, the Health Canada report. 3 By the way, let me ask you. You also understand that Chief 4 Judge Wolfson in the District of New Jersey also concluded that 5 there was sufficient evidence to go to the jury on the question 6 7 of whether or not talc causes ovarian cancer --MR. HAMILTON: Your --8 BY MR. TISI: 9 -- during your tenure? 10 11 MR. HAMILTON: Your Honor? THE COURT: Sustained. 12 MR. TISI: Okay. 13 BY MR. TISI: 14 15 Now we have given the Court a brief timeline of what happened in your tenure. Let's get back to discussing the 16 17 primary reason why we're here. Your boss between 2017 and 2019 is someone who we've heard 18 about, Joanne Waldstreicher, correct? 19 20 Correct. Okay. And, and she works for Johnson & Johnson, the 21 parent, true? 22 She is the Chief Medical Officer for J&J, the, the parent. 23 I'm not sure in terms of who signs her paycheck and what her 24

25

contract says now.

KUFFNER - CROSS 397

- 1 Q And unlike you, she's an employee of, of that, or she's
- 2 designated as an employee of the parent, true?
- 3 A She, she's the Chief Medical Officer for all of J&J. As I
- 4 | said, I don't know who signs her paycheck, what her contract
- 5 says.
- 6 Q And she still works for, in that position, correct?
- 7 A She's still the Chief Medical Officer for Johnson &
- 8 Johnson.
- 9 Q And she's not here in the courtroom today to tell us what
- 10 | the role of J&J was, is she?
- 11 A She's not here today.
- 12 Q Okay. And can you think of any reason why she hasn't come
- down to tell the Court about what the role of J&J is with
- 14 respect to the safety of consumer products?
- MR. HAMILTON: Your Honor, I'm going to object to --
- 16 how would he know?
- 17 | THE COURT: Well, it sounds like an argument.
- 18 And if you know the answer to the question to the
- 19 question, do you?
- 20 THE WITNESS: I -- I -- I don't know. I was asked to
- 21 | come here and came.
- 22 BY MR. TISI:
- 23 | Q Okay.
- 24 THE COURT: Okay.
- 25 BY MR. TISI:

```
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                                                                  398
        Well, the truth is --
 1
    Q
             THE COURT: Go ahead.
 2
             MR. TISI: I'm sorry, your Honor.
 3
             THE COURT: I said go ahead.
 4
    BY MR. TISI:
 5
        The truth is that separate from the JJCI Consumer Medical
 6
    Safety Committee that you testified on direct for Old JJCI,
 7
    there is a separate Medical Safety Council at the corporate
 8
    level, true?
 9
10
        Correct.
11
        Okay. And these are two separate things. There's the,
    there's the Safety Council that you're Chair of and then
12
13
    there's the Safety Council that Dr. Waldstreicher is the Chair
    of, true?
14
15
    Α
        Correct.
        And you are a member of the Safe, Safety Council that
16
17
    Dr. Waldstreicher is the Chair of, true?
18
    Α
        Yes.
        Okay. And also on that Committee are, are the CMOs for
19
    Medical Devices, true?
20
21
    Α
        Yes.
        And the CMO for, for Pharmaceuticals, true?
22
23
        Yes.
        And together, the four of you make, make up the core
24
    membership of the J&J Medical Safety Committee?
25
```

Exhibit 32

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Fibrous and Mineral Content of Cosmetic Talcum Products / 968

L. J. CRALLEY, Ph.D., M. M. KEY, M.D., D. H. GROTH, M.D., W. S. LAINHART, M.D., and R. M. LIGO, M.D.

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Solution In searching for sources of fibers ubiquitous to our everyday environment and of respirable size, the authors examined 22 talcum products commonly available on retail shelves and found fiber contents ranging from 8 to 30% by count, with an average of 19%. Fibrous particulates were generally under 1.0 μ in diameter with lengths ranging from 1.5 to 6.0 μ. From 0.3 to 3.0% quartz was found in 21 of the samples and the remaining sample had 54.4% quartz. The samples were also analyzed for metals; with four exceptions, the levels of cobalt, nickel, chromium and manganese were low. Further research will be needed to assess the significance of these findings.

EPORTS OF FINDING pulmonary R EPORTS OF FINDING FINDING Referred to as "formations" bodies, "asbestos" and now as "ferruginous" bodies, in the lungs of persons coming to autopsy in hospitals in a number of cities have recently been increasing. The first report of these morphologically distinctive fibrous bodies in the sputum and lungs of asbestos workers was made in 1906 by Marchand. Current interest dates from 1963 when Thompson et al.2 found these fibrous bodies in the lungs in 26.4% of the autopsies in a series of examinations in Cape Town. Subsequent investigations³⁻⁸ provide evidence that the occurrence of these bodies in the lungs of urban residents is not restricted to those in isolated localities and is not a one-time chance observation.

The identity of the fibrous core of these coated bodies, however, was never determined by the investigators. The fibers were routinely considered as asbestos bodies on the basis of their morphological structure.

In searching for the sources of these ubiquitous fibers, Cralley et al. reported that talcum powder contained a significant percent-

age of respirable fibers and was a potential source of the ferruginous bodies observed in the lungs of humans. This observation led to further study to characterize cosmetic talcum products.

The major purpose of the investigation reported here was to develop and present data on some of the constituents found in cosmetic talcum products and to discuss their health aspects in the light of today's knowledge. It is not our intent to make a general appraisal of health factors in the use of talcum products because of the many variables involved and the limited data available on the consumption of various "sources of talcs" in the formulation and use of cosmetic talcum products. The potential health aspects of some of the data, however, are discussed.

Twenty-two cosmetic talcum products (representing body powder, bath powder, and all purpose powder) purchased off-the-shelf, were analyzed for fibrous content, selected metals, and quartz. The data and a discussion of their possible significance follow.

Analysis of Talcum Products

Talc is a natural mineral, hydrous magnesium silicate, with the general formula (OH)₂-

Presented at the American Industrial Hygiene Conference May 13-17, 1968, St. Louis, Missouri.

TABLE I
Designated Analyses of Cosmetic Talcum Products

Talcum	%	% Free		pp	m*			mg/gm**								
Product No.			Co	Cr	Ni	Mn	Zr	Ti	Zn	Fe	Mg	Si	Al			
1	19	0.3	13	9	13	16	<10	0.9	ND	20	>10	>10	50			
2	21	0.4	<10	<10	<10	23	33	0.5	5	10	2.3	,,	6			
2 3	23	0.2	<10	<10	20	78	,,	0.3	ND	7	9.9	"	5			
4	19	2.2	G7	240	1270	55	3.5	0.8	40	30	9.9	33	40			
4 5	30	0.6	<10	<10	14	<10	19	0.2	ND	6	11	55	5			
6	18	1.5	21	14	16	13	**	0.1	11	15	11	11	60			
7	14	2.1.	ND ·	<10	17	14	5 5	0.4	**	10	**	11	5			
8	19	3.6	< 9	329	479	45	35	0.3	33	15	9.9	19	3			
9	21	53.4	<11	ND	<10	14	20	20.0	ND	8	0.5	1,	>100			
10	8	0.9	25	<12	24	33	<10	30.0	40	12	>10	"	30			
11	8	1.4	18	22	20	61	",,	20.0	10	50	,,,	**	40			
12	25	1.3	10	13	17	41	"	0.8	ND	10	22	,,	8			
13	26	1.7	ND	<10	<10	19	33	0.8	22	10	23	,,	10			
14	28	1.3	<10	10	<10	26	23	0.8	"	10	,,	11	15			
15	28	1.9	<10	<10	16	24	23	0.3	,,	1C	31	; ,	9			
16	12	1.2	<11	<11	16	62	,,	10.0	"	20	31	12	15			
17	13	1.7	<10	10	19	70	30	10.0	,,	20	33	,,	12			
18	16	0.4	16	< 9	14	18	<10	0.5	5	15	"	>>	40			
19	18	1.0	<10	<10	21	16	13	0.7	ND	10	22	,,	6			
20	16	1.2	22	10	29	50	25	0.8	40	10	21	,,	40			
21	25	3.3	10	9	19	26	,,,	0.6	5	10	21	,,	10			
. 22	14	0.5	14	1170	1210	84		0.3	ND	30	21	33	4			

^{*}Microgram of metal per gram of sample.

Mg₃Si₄O₁₀. Talc mineral is formed by the hydrothermal alteration of serpentine and tremolite or directly from unserpentinized ultrabasic rocks. Tale may also be formed by the thermal metamorphism of silicous dolomites. 10-12 The characteristics of the mineral deposits vary widely from the pure talc formula and from each other according to the mineralogy involved. Some deposits may contain varying amounts of tremolite, chrysotile, pyrophylite, or serpentine, or other basic material from which the talc may be derived. The deposits may also contain varying amounts of metals such as iron, nickel, cobalt, chromium, and manganese as associated minerals, as well as silica. Cosmetic talcum may be basically pure talc or may be a formulation of talc with other materials such as clay, chalk, stearates, etc. Zinc, titanium, manganese, and iron compounds may be added as pigments and opacifiers.

The particle-size distribution and percentage by count of fibers in the talcum particulates were determined by dispersing the talcum in water, filtering the mixture through an "AA" membrane filter, and measuring with a phase contrast microscope at 430

magnification. The percentage of free silica was determined by x-ray diffraction. Cobalt, chromium, nickel, and manganese were determined by means of atomic absorption spectrophotometry. Zirconium, titanium, zinc, iron, and magnesium were determined by means of semi-quantitative emission spectrography.

Table I gives analytical data on 22 different cosmetic talcum products. Figures 1 and 2 are representative photomicrographs of two talcum specimens showing the presence of fibers.

Size Distribution of Talcum Particulates

Seven of the twenty-two talcum products were selected for size-distribution measurements of the fibrous and non-fibrous particulate components.

The diameter of 80 to 95% of all the particulates in these samples was under 5.0 microns (μ). The median of the diameter of the non-fibrous particulates in the seven products ranged from 0.7 to 2.0 μ , with a median average around 1.0 μ .

A fiber is defined as a particulate having at least a 1:3 ratio of diameter to length. The fibrous particulates in the seven products were

^{***}Milligram of element per gram of sample.

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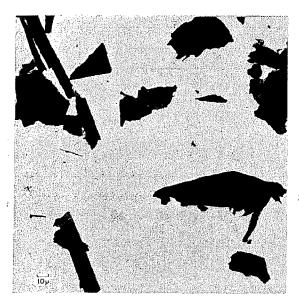


FIGURE 1. Photomicrograph of talcum specimen showing presence of fibers $(430 \times)$.

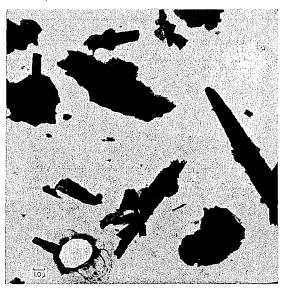


FIGURE 2. Photomicrograph of talcum specimen showing presence of fibers (430 ×).

generally under 1.0 μ in diameter, with lengths ranging from 1.5 to 6.0 μ .

The 22 talcum products analyzed showed fiber contents ranging from 8 to 30% by count of the total talcum particulates with an average of 19%. Although the specific fibrous materials were not identified, they were predominantly fibrous talc, as shown by x-ray diffraction, with the probable presence in minor amounts of other fibrous minerals such as tremolite, anthophylite, chrysotile, and pyrophyllite.

The electron microscope, with its higher power of resolution, shows a number of submicron diameter particulates not visible by means of phase contrast microscopy.

Free Silica

In 8 of the 22 talcum products (Table I), the presence of quartz ranged from 0.3 to 1.0%; in 13 products, 1.2 to 3.0% quartz, and in 1 product, 54.4% quartz.

Metals

With the exception of talcum products Nos. 4, 8, and 22 (Table I), the cobalt content of the products analyzed was under 25 parts per

million by weight (ppm), chromium under 22 ppm, nickel under 29 ppm, and manganese under 78 ppm. Product No. 4 had a nickel content of 1270 ppm; chromium 340 ppm; and cobalt, 67 ppm. Product No. 8 contained 479 ppm nickel and 329 ppm chromium. Product No. 22 contained 1210 ppm nickel and 1170 ppm chromium. Qualitative tests showed some of the chromium in the talcum products to be in the hexavalent state. The nickel, chromium, cobalt, and manganese in the talcum products may have come from the talc mineral deposit¹⁰ or from the alloy metals of the pulverizing equipment used in reducing the talc.¹³

The zirconium content of the products was all under 10 milligrams per gram (mg/gm) except for products Nos. 9 and 17, which had 20 and 30 mg/gm respectively. The titanium, zinc, and iron ranged from a few tenths to 50 mg/gm of talcum and were probably present as pigments or opacifiers. The magnesium content of the products was over 10 mg/gm, except for product No. 9 which had only 0.5 mg/gm. The magnesium was probably present as an additive in the formulation or as a part of the talc molecule or other amphiboles in the products.

The aluminum and silicas were in all probability associated either with the talc molecule, or additives such as kaolin, or the base material from which the talc was derived.

Known Health Effects of Talc

Much of our knowledge of the health effects of talc is derived from studies of occupational exposures in its mining, milling, and industrial use. In extrapolating this knowledge to the cosmetic use of talcum powder, it must be recognized that the pattern of exposures in the use of talcum product varies markedly from person to person, not only in frequency of use but also in amount and in location.

In contrast to industrial exposures where the pattern is likely to be more continuous with accompanying peaks, exposure in the use of cosmetic talcum products is very intermittent with peak exposures dominating. The exposure pattern may continue a lifetime, especially if the use of talcum is established in the earlier years as a part of personal habits. The air-borne dosage to workers from industrial exposures to talc that have resulted in injury to health were undoubtedly much higher, however, than would be predicted from the use of cosmetic talcum products.

Mining, Milling, and Industrial Use.

The clinical entity of talc pneumoconiosis, "talcosis," has been observed repeatedly in workers with long exposure to talc in its mining, milling, and industrial use.14-17 Elongated. terminally clubbed pulmonary fibrous bodies, both segmented and unsegmented and similar in morphology to ferruginous bodies, have been found in talc workers, but these workers had received a mixed exposure—to talc, tremolite, anthophyllite, and silica. 18,19 In one study²⁰ the mortality rate from cancer of the lung and pleura was four times greater for a group of talc workers than for the general population. In pulmonary cancer from asbestos, the role of fibers and trace metals is uncertain. Some investigators have assumed the fibers play a dominant and direct role; more recent investigations indicate that the fibers may have been only an index concealing a spectrum of unidentified agents and relationship.13

Surgical and Cosmetic Use

The only reported cutaneous reactions from the use of talcum powder are talc granulomas, and these have been rare. ^{21,22} Talcum powder, however, is no longer used on surgical gloves and should not be applied to broken skin. Occasionally, perfume oils used in talcum powder formulations sensitize the skin and produce dermatitis. ^{23,24}

Conclusions

With the exception of 4 of the 22 cosmetic talcum products analyzed, the levels of free silica, cobalt, nickel, chromium, and manganese were generally of a low magnitude and within a narrow range. It is not known whether the four products represent a significant proportion of sales in the industry or to what extent the sources of the talc in these four formulations are the same as sources of talc specified for use in other talcum products in the competitive market. The levels of silica, chromium, and nickel in these four products are sufficiently high, however, to be of concern in their potential to cause disease.

All of the 22 talcum products analyzed have an appreciable fiber content, ranging from 8 to 30% by count of the total talcum particulates, and averaging 19%. The fibrous material was predominantly talc but probably contained minor amounts of tremolite, anthophyllite, and chrysotile as these are often present in fibrous talc mineral deposits. Cosmetic talcum products should be included as a source of the fibers, from which may be derived ferruginous bodies observed in the lungs of humans. The meaning of the presence of these ferruginous bodies, however, is uncertain.

Industry has the know-how to safely handle fibrous material as well as toxic metals such as nickel, chromium, cobalt, and manganese once adequate criteria have been established. Unknown significant amounts of such materials in products that may be used without precautions may create an unsuspected problem. For this reason continued research and investigations and communication of findings are necessary in this area.

July-August, 1968

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Human Factors Association of Canada

On June 1 a group of 29 people gathered in Toronto, Canada, and formed the Human Factors Association of Canada. It is anticipated that the Association will have membership throughout Canada and will represent interests of the many disciplines concerned with man's functioning in his physical and machine environments. The following officers were elected: President, Dr. R. B. Bromiley, Vice-President, Dr. E. Llewellyn Thomas, Secretary-Treasurer, Mr. Ronald E. F. Lewis. The following were named Directors: Dr. J. R. Brown, Dr. A. C. Bryan, Dr. Ruth Hoyt and Mr. J. F. Martin. Correspondence should be addressed to: Secretary-Treasurer, Human Factors Association of Canada, c/o Defence Research Establishment Toronto, Box 2000 Downsview, Ontario, Canada.

Exhibit 33

CONSUMER TALCUMS AND POWDERS: MINERAL AND CHEMICAL CHARACTERIZATION

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Representative consumer talcums and powders, including 20 body powders, baby powders, facial talcums, and also one pharmaceutical talc, were analyzed to determine their mineralogical and chemical composition. Where known, all were formulated prior to 1973. Of the 20 products 10 contained detectable amounts of tremolite and anthophyllite, principally asbestiform, while some also contained fragmented forms of these minerals. The amounts ranged from tenths of a percent to over 14% by weight; two contained detectable amounts of chrysotile asbestos fiber. Eight contained quartz, seven ranging from 2 to 5%, with one as high as 35%. The analyses showed that the consumer products examined were rarely the pure mineral talc, but rather were mixtures of various minerals; some samples consisted of three to five minerals, only one of which was talc. Other common mineral phases included chlorite, platy serpentine, pyrophyllite, mica, and carbonate minerals. Kaolin additive was identified in two products. The single pharmaceutical talc examined contained only a trace amount of quartz.

The chemical composition of these products, including both major oxide and trace element content, correlated with their mineral components. Four samples contained substantial concentrations of nickel, cobalt, and chromium, suggesting lattice substitution or the presence of trace mineral phases. Geological provenance of the talcs may be ascertained on the basis of chemistry. Possible adverse health effects from intermittent use of these products, especially those that contain asbestiform and fragmented anthophyllite and tremolite, chrysotile, quartz, and trace metals, are presently unknown and warrant evaluation.

INTRODUCTION

Consumer talcums and powders are considered by the general public to be talc, an impression that is conveyed and strengthened by the product

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names and ingredients listed on the container labels. However, knowledge of the geological occurrence and mineralogical character of source materials suggests the nature of talc to be highly variable and complex. Twenty-one consumer talcums and powders (Table 1) were mineralogically and chemically analyzed to determine whether these products are actually talc mineral.

Talc is a defined mineral entity, based on specific chemical, crystalline, and physical properties (Ford, 1957). The empirical chemical formula, $Mg_3Si_4O_{10}(OH)_2$, is seldom observed in nature as a result of cation substitution. For example, magnesium is frequently replaced by iron, nickel, chromium, or manganese in the crystal structure. Talc is a sheet silicate, with a structural unit consisting of three layers; a sheet of octahedrally coordinated magnesium hydroxide groups is sandwiched between two layers of tetrahedrally linked silica layers. The Van der Waals bond between the talc sheets are of low energy accounting for the ease with which talc as well as other sheet silicate minerals (micas, clays) cleave

TABLE 1. Designation of Contents in Brand Name or Label

Sample no.	Date of formulation
Products	designated as talcs
3	Not available
8	Not available
12	Approximately 1972
7	September 1972
17 · ·	Not available
6	April 16, 1973
19	May 1973
21	Not available
Products	designated as powders (talc on label)
4	December 1970
18	Not available
20	December 1970
5	February 1973
16	Not available
Products (designated as powders (or dust)
1	Between January 1968 and July 1970
14	October 3, 1970
15	Between October 1970 and March 1973
9	February or March 1973
11	July 1969
13	July 16, 1970
2	Not available
10	Approximately 1972

or break into platy fragments. This facile cleavage, with resultant high surface area, and its softness, small particle size, and whiteness confer upon talc its usefulness as a cosmetic material.

GEOLOGICAL OCCURRENCE OF TALC

Talc rocks (including those commercially worked) are formed by several complex geological processes reacting upon many possible, chemically diverse preexisting rock types. Hydrothermal alteration of magnesiaand silica-rich ultramafic rocks, under a range of low-to-moderate temperatures and pressures, may produce talc. Thermal metamorphism of silicarich dolomite $[CaMg(CO_3)_2]$ will produce talc as well. These processes, however, also commonly result in the formation of a number of other coexisting mineral phases, predominantly hydrous magnesium silicates. Some of these, for example, anthophyllite, tremolite, and serpentine minerals (including chrysotile), occur as microscopic intergrowths with talc, as macroscopic nodules, or even as discrete zones within or adjacent to talc (Table 2). Talc rock is therefore generally not monominerallic but is often a mixture of minerals that may vary widely with respect to kind and quantity. Phlogopite, a magnesium mica, and chlorite, a group of minerals related to the micas, are also commonly associated with talc. Some of these associated mineral phases are asbestiform amphiboles and chrysotile (see discussion of the terms asbestos and asbestiform in Appendix A). Conversely, talc has been described as a common accessory mineral in commercial asbestos deposits (Hurlbut and Williams, 1935).

Talc deposits may be zoned, with different mineral assemblages physically changing in occurrence and proportions over extremely variable

TABLE 2. Minerals that Commonly Occur in Talc Deposits

Mineral group	Phase	Formula
Carbonates	Calcite Dolomite Magnesite	CaCO ₃ CaMg(CO ₃) ₂ MgCO ₃
Amphiboles	Tremolite ^a Anthophyllite ^a	$Ca_2Mg_5Si_8O_{22}(OH)_2$ $(FeMg)_7Si_8O_{22}(OH)_2$
Serpentine	Antigorite Chrysotile (uncommon) Lizardite (uncommon)	Mg ₃ Si ₂ O ₅ (OH) ₄ Mg ₃ Si ₂ O ₅ (OH) ₄ Mg ₃ Si ₂ O ₅ (OH) ₄
Others	Quartz Mica, e.g., phiogopite Chlorite, e.g., penninite Pyrophyllite	SiO ₂ K ₂ (Mg,Fe) ₆ [Si ₆ Al ₂ O ₂₀] (OH) ₄ (Mg,Al,Fe) ₁₂ [(Si,Al) ₈ O ₂₀] (OH) ₁₆ Al ₄ [(Si ₆ O ₂₀] (OH) ₄

^aOccurring as fibrous and nonfibrous forms. Other trace mineral phases are often present but are not included.

distances, ranging from centimeters to tens of meters. Mineral phases in such deposits may include talc plates and fibers, tremolite and anthophyllite fibers, intergrowths of amphibole and talc, serpentine minerals (which may include chrysotile), and free silica (quartz) (Ross et al., 1968). The fiber intergrowth is often such that even extensive beneficiation may not yield a pure product. Thus, where fine-grained intergrowths of talc and tremolite occur, the processed product will likely contain residual tremolite. Further details concerning the crystal chemistry, structure, synthesis, and geological occurrence of talc are found in Appendix B.

INDUSTRIAL AND COSMETIC GRADE TALCS

It is generally recognized that various commercial grades of talc are marketed in the United States (Appendix C). Hildick-Smith (1976) has stated that a talc suitable for pharmaceutical purposes, used in cosmetic and toiletry products, contains at least 90% talc mineral and no detectable asbestos. Such stated compositional restrictions are not placed on industrial grade talcs. One study demonstrated that a number of industrial talcs contained substantial quantities of tremolite, up to 87% by weight of the sample (Schulz and Williams, 1942).

In 1968, a study (Cralley et al., 1968) of 22 cosmetic talcum products demonstrated fiber contents ranging

from 8 to 30% by count with an average of 19%. The fibrous material was predominately talc but probably contained minor amounts of tremolite, anthophyllite and chrysotile as these are often present in fibrous talc mineral deposits.

With the exception of 4 of the 22 cosmetic talcum products analyzed, the levels of free silica, cobalt, nickel, chromium, and manganese were generally of a low magnitude and within a narrow range. . . . The levels of silica, chromium, and nickel in these four products are sufficiently high, however, to be of concern in their potential to cause disease.

Thus, as late as 1968 some consumer talcum products marketed in the United States contained asbestiform minerals, free silica, and trace metals.

HUMAN DISEASE ASSOCIATED WITH TALC EXPOSURE

For nearly half a century a number of reports have shown that occupational exposure to talc dust is associated with a fine diffuse interstitial lung scarring known as talcosis. Fibrous talcs appeared to be more pathogenic than platy talcs, producing in addition to talcosis, increased risk of malignant tumors in exposed workers (Kleinfeld and

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Messite, 1960; Kleinfeld et al., 1967). Studies concerning the biological consequences associated with talc dust exposure, including cancer, are referred to in Appendix D.

OBJECTIVES OF THE PRESENT STUDY

Twenty-one samples of consumer talcums and powders, including baby powders, body powders, facial powders, and a pharmaceutical talcum, were obtained at retail stores in the New York City area. These samples were acquired and studied during the period 1971–1975 (Table 1). The major purpose of the study was to determine the mineralogical and chemical composition, with particular emphasis on the quantitative determination of tremolite, anthophyllite, serpentine minerals, and quartz. Another objective was to establish a base line for consumer talcums and powders, based on a sampling of products available during the period 1971–1975. This base line provides an index for evaluating possible changes in subsequent formulations.

METHODOLOGY AND RESULTS OF MINERAL AND CHEMICAL CHARACTERIZATION

The analytical techniques employed for mineral identification and quantification included optical microscopy, transmission electron microscopy with selected area electron diffraction, X-ray diffraction, and scanning electron microscopy with X-ray analysis capabilities. Chemical determinations (bulk chemistry and trace metals) were made with a number of standard instruments and geochemical techniques, including spectrophotometry $[SiO_2, TiO_2, Al_2O_3, total\ Fe\ (Fe_2O_3)$ by difference from FeO), P_2O_5 ; atomic absorption (MnO, MgO, CaO); flame photometry (Na₂O, K₂O); wet chemical assay (FeO); weight loss, volatiles (H₂O, CO₂, organics). X-ray fluorescence was used for all trace metals (Bowes and Langer, 1974).

Optical Microscopy

Optical microscopy is a conventional technique for the identification of minerals and for the study of mineral relationships. A microscope equipped with bright field illumination and polarized light optics was used to analyze the cosmetic powders. Approximately 0.5 mg of powder was placed on a precleaned glass slide and immersed in index oils of known refractive indices. These were checked on a refractometer. The information obtained on particles with this method included most of the measurable optical properties, including indices of refraction, extinction angles of fibers, general morphology, and size characteristics of mineral phases (Fig. 1). In coarse-grained powders, fibers could be identified (tremolite, anthophyllite, talc). Two samples contained cornstarch, easily recognized

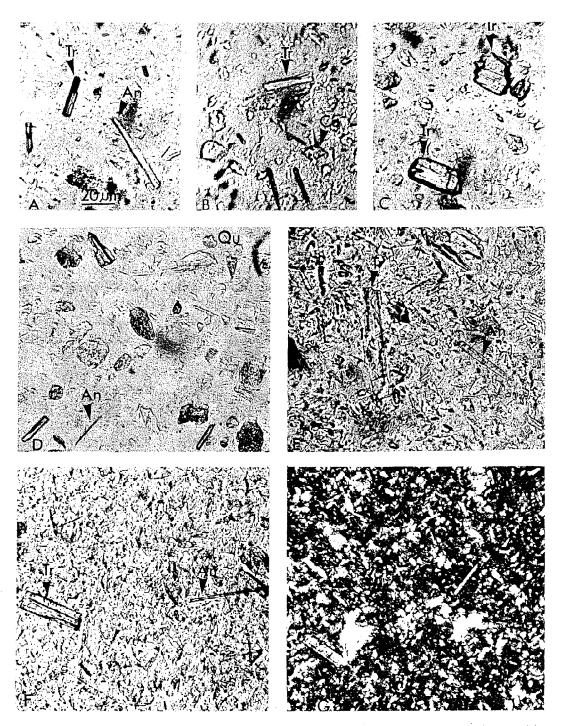


FIGURE 1. Optical photomicrographs of cosmetic talcums and powders grossly contaminated with asbestiform minerals. Photos obtained in plane polarized light (A-F) and between crossed polars (G). Scale in (A) for all photos. Fibers shown have optical properties consistent with tremolite (Tr) and anthophyllite (An). Quartz grains (Qu) and calcite fragments (Ca) are also shown. Most tremolite fibers tend to possess smaller length-to-width ratios than anthophyllite. Tremolite is observed as fragments (C). Photo obtained between crossed polars (G) also demonstrates the presence of fibers in the matrix material. Asbestiform length-to-width ratios measured up to 20:1 (F).

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by morphological and optical characteristics. One product consisted entirely of cornstarch.

In most samples, however, the powders were too fine grained, with particle dimensions significantly less than 1.0 μ m, for the technique to be useful. The limiting factor for determination of optical constants, and hence for identification of particles, is the resolving power of the microscope. The presence of talc fibers, which may have indices of refraction similar to amphibole (tremolite, anthophyllite) fibers, also confounds analysis. Therefore, although this technique is an excellent diagnostic instrument in some instances these restrictions limited its usefulness.

Other investigators have experienced similar difficulties. For example, in a study of the asbestos content of talc (Stanley and Norwood, 1973), there was difficulty in applying optical microscopy to the problem. The authors concluded that optical microscopy

while it works well on pure samples of fairly massive fiber length from 3 to 5 microns, our observations by transmission electron microscopy have shown that naturally occurring asbestiform minerals often lie below the working resolution capabilities of the light microscope and furthermore while massive fiber bundles can often be observed by either light or electron microscopy the observation of individual fibers smaller than 0.5 by 0.2 micrometers often will require the high resolution capability of the transmission electron microscope (emphasis added).

It is further stated that "light microscopy was helpful only in screening samples with large particles and high concentrations of objectionable fibers."

By comparing the results of optical microscopy with those of quantitative X-ray diffraction and electron microscopy, we observed that large numbers of fibers go undetected. In addition to the restraints of resolution imposed by light microscopy, another major drawback relates to the strong tendency of asbestiform minerals to cleave or break along planes of weakness when they are crushed, producing large numbers of small fibers. For example, light microscopic examination of a talc sample (no. 8), which contains over 7% tremolite (see Table 4), demonstrates the presence of mineral fragments that are primarily not asbestiform (Fig. 1C). However, electron microscopic examination of the same sample demonstrates that many of the submicroscopic tremolite particles are fibrous (see Fig. 3E). The problem involving the determination of the relative proportions of each of these morphological phases in the same sample (mass vs. number) is presently unresolved. Basically, the large fibers are broken during milling yielding a new size distribution in the submicroscopic range.

X-ray Diffraction

The application of X-ray diffraction analysis in step-scan mode for quantitative determination of asbestos in talc has been described in detail (Rohl and Langer, 1974), including the selection of talc and asbestos reference materials, the preparation of standard dilutions of asbestos minerals in talc to ensure sensitivity and reproducibility, the selection of characteristic X-ray reflections to be scanned, and instrumental technique.

Selection of talc mineral standard. Screening of various types of talcs for use as reference material was made by X-ray diffraction and transmission electron microscopic analysis. A continuous scan was first made to identify the major mineral phases present. Talcs that showed the presence of any serpentine mineral, tremolite, or anthophyllite were eliminated as reference materials. The possibility of false negatives for these minerals was checked by step scanning the diagnostic reflections (Table 3). Further verification of the absence of asbestiform minerals was made by transmission electron microscopy. These techniques permitted the selection of a matrix talc that was completely free of asbestiform minerals.

Chlorite minerals are hydrous iron-magnesium silicates, frequently associated with talcs. Their presence may interfere with the detection of serpentine minerals, both platy (antigorite) and fibrous (chrysotile). This is particularly true if they are present in equal or larger amounts than these latter minerals. Two intense basal reflections at 14.2 Å (001) and 7.1 Å (002) are characteristic of chlorite minerals. The latter reflection occurs close to the (002) reflection of serpentine minerals (7.3 Å). The 3.66 Å (004) reflection of serpentine was selected as diagnostic (Table 3), since the lower intensity (004) reflection of chlorite (3.53 Å) in this region was found not to cause interference.

Selection of the asbestos standard. Reference samples of pure asbestos minerals were obtained from various mineral collections and from the International Association for Research on Cancer (IARC). These were screened for purity and particularly for the presence of interfering contaminants according to the procedures previously described for talc. Two different specimens of chrysotile were used as reference materials: a triple air-jet milled sample from the Jeffrey Mine, Quebec (provided by the Johns-Manville Corp.) and a specimen from Coalinga, California (provided by the Calidria Division, Union Carbide Corp.).

Sample preparation. Among the variables that strongly influence the precision and accuracy of quantitative X-ray diffractometry are particle size, preferred orientation, and surface flatness. Variation due to particle size can be minimized by crushing and screening the asbestos and talc standards to ensure a uniform size distribution, with an effective crystallite dimension on the order of 5 μ m or less. The effect of preferred orientation is more difficult to control. The tendency for preferred orientation is largely the function of mineral cleavage properties. Both the talc and the asbestos minerals have excellent cleavages, platy in talc and

TABLE 3. Calibration Curve Data for the Determination of Asbestiform Minerals and Quartz in Talc by X-ray Analysis^a

· · · · · · · · · · · · · · · · · · ·	Mineral phase									
Parameter	Anthophyllite	Chrysotile	Quartz	Tremolite						
Miller index of diagnostic reflection	(210)	(004)	(211) ^b	(110)						
Corresponding d-spacing (A)	8.26	3.66	1.54	8.38						
Relative intensity	55	80	15	100						
Step-scan interval (2 theta)	10.0-11.0	23.5-25.0	59.5-60.5	10.0-11.0						

Percent mineral in talc and corresponding area of reflection

Antho	ohyllite	Chry	sotile	Qu	artz	Tremolite		
%	in. ^{2C}	%	in. ²	%	in.²	%	in.²	
5.0	0.92	0.25	0.01	5.0	2.75	0.1	0.13	
10.0	2.35	,0.5	0.03	10.0	3.75	0.5	0.30	
15.0	3.99	1.0	0.08	20.0	7.11	2.2	0.43	
20.0	4.65	2.0	0.22	25.0	9.30	2.7	0.67	
25.0	5.12	5.0	0.94	30.0	13.20	4.3	1.25	
30.0	7.22	7.0	1.52	40.0	16.90	5.0	1.65	
3 <i>5</i> .0	9.92	8.5	2.21		-	7.0	2.08	
	— .	8.9	2.34	_	_	10.0	2.80	

	Detection limit
Wt % Anthophyllite = Area (210) = 0.27 (%An) - 0.52 R ² = 0.95	2.0%
Wt % Chrysotile = Area $(004) = 0.27 (\%Ch) - 0.50 R^2 = 0.98$	0.7%
Wt % Quartz = Area (211) = 0.43 (%Q) $-0.60 \text{ R}^2 = 0.96$	1.4%
Wt % Tremolite = Area (110) = 0.28 (%Tr) $-0.04 \text{ R}^2 = 0.98$	0.1%

^aInstrumental settings: target/filter, Cu/Ni, 45 kV/20 mA; scintillation counter, 1450 VDC; monochromator, graphite; pulse-time analyzer, 20 V, 5 V (width, level); continuous scan, 1° $2 \theta/\text{min}$; step-scan, $0.02^{\circ} 2 \theta$ at 2,000 counts fixed.

fibrous in the case of tremolite, anthophyllite, and chrysotile (see Rohl and Langer, 1974, Fig. 2). In attempting to reduce or eliminate the effects of preferred orientation in X-ray analysis, a number of sample preparation and instrumental techniques have been developed (Bragg, 1967; Brindley and Kurtossy, 1961; Cullity, 1956; Klug and Alexander, 1954). In the present study these techniques were tested, but none was found to provide adequate precision (reproducibility). Accordingly, a sample preparation technique was developed that was successfully used, in conjunction with X-ray diffraction in the step-scan mode, to detect diagnostic reflections of these minerals in a talc matrix over a range of concentrations (Table 3).

^bRhombohedral index.

 $^{^{\}it C}$ Repeated measurements of areas under curves with a polar planimeter indicated average deviation of $\pm~0.02-0.05$ in. $^{\it 2}$.

The reproducibility of reflection intensities was also greater than other preparation techniques tested.

Binary dilution standards of chrysotile, anthophyllite, and tremolite in talc were prepared gravimetrically. Asbestos fiber concentrations were prepared initially at 5.0, 4.0, 2.0, 1.0, 0.5, 0.2, and 0.1%. Fifty milligrams of the talc-asbestos mixtures were homogenized in 10 ml filtered water utilizing ultrasonic energy. This slurry was poured into a 30 cc syringe and filtered through a 0.22 μ m pore size membrane filter. To prevent stratification due to differential particle size and density effects, the syringe is held in a horizontal position, rotated, and shaken during filtration. The residue forms a flat cake of about 0.5 mm uniform thickness on the membrane filter. When dried, the sample is affixed to a glass slide for X-ray diffraction analysis (Rohl and Langer, 1974).

Selection of X-ray reflections. Because of crystal structure similarities in the minerals being studied (i.e., tremolite and anthophyllite), considerable overlapping and interference of X-ray reflections occur. The low symmetry and consequent complex X-ray diffractograms of such minerals as talc, chlorite, and mica, as well as possible interferences from admixed phases such as kaolinite, make it necessary to select a reflection or set of reflections for each mineral component that could be used as an index of the amount of that mineral in a mixture. Such diagnostic reflections were selected by referring to standard X-ray powder diffraction data. These diagnostic reflections were step-scanned at 0.02° 2 theta in a fixed count mode (2 X 10³ counts). Precise positions and profiles of the diagnostic reflections were determined. In the fixed count mode, each of the angular intervals selected are scanned with equal accuracy. Thus weak reflections can be determined with equal precision as high intensity reflections. The statistical accuracy depends only on the total number of counts recorded. and the counting rate selected gives a percentage probable error of about 2%. Profiles of the diagnostic reflections, plotted as a function of number of counts vs. 2 theta, are measured with a compensating polar planimeter. The intensity of a reflection is proportional to, but not necessarily a linear function of, its concentration. Other factors that may influence reflection intensities include instrumental conditions, particle size, degree of preferred orientation, sample thickness and flatness, and absorption characteristics (Klug and Alexander, 1954; Rohl and Langer, 1974).

Figure 2 shows calibration curves obtained for chrysotile, anthophyllite, tremolite, and quartz using the step-scan technique. Measured areas of diagnostic reflections are plotted against percent dilution in talc. As indicated in Table 3 tremolite may be determined at levels as low as 0.10% by weight, chrysotile from 0.25 to 0.50%, and anthophyllite, as low as 2% in talc. It is important to note that the limits of detection given in Table 3 are higher and based on a best fit regression analysis. For example, regression analysis indicates that the detection limit for chrysotile is 0.7%, whereas from 0.25 to 0.5% can be actually detected,

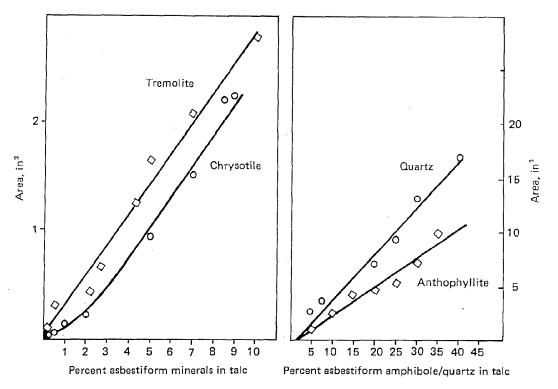


FIGURE 2. Calibration of asbestiform amphiboles and quartz in talc.

depending on particle size, degree of crystallinity, etc. The changes in slope at the lower end of the curves are not reflected so that axial intercepts are exaggerated on the high end of the abscissa.

By using X-ray diffraction in the step-scan mode, Stanley and Norwood (1973) were able to detect a minimum of 0.25% tremolite in talc and a minimum of 0.5% chrysotile and the other asbestiform minerals. However, such low levels of chrysotile were not detected when chlorite was present.

Step scanning. The contents of the containers were thoroughly mixed with a sample splitter to avoid stratification effects. Aliquots of each, weighing 50 mg, were prepared using the identical methodology described for preparation of the dilution standards. The filter-mounted samples were then step scanned over the goniometric intervals diagnostic for the standard asbestiform minerals and quartz. Instrument operating conditions were identical with those used for analyzing the dilution standards. Profiles plotted for the diagnostic intervals and reflection areas after peak stripping were measured by polar planimetry. The weight percents of anthophyllite, tremolite, and quartz contents were estimated by referring to the appropriate regression curve. The quantities of asbestiform materials in the 21 talcums and powders found by this technique are shown in Table 4. The results show that 10 of the 21 samples contain amphibole

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TABLE 4. Summary of Mineralogical Composition of 21 Consumer Talcums and Powders

										Samp	ole no.									-	
Minerals	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Talc	M^a	_	М	М	М	М	М	Р	М	M	М	M	M	M	M	М	M	М	М	М	M
Chlorite	Р	_	_	Р	Tr	Р	P	_	P	P	P	P	P	Р	P		Р	P	Р	Р	P
Phlogopite	_				Tr	_	_	P^{D}	_		Р	Р	_	_	_	_	_	_	_	_	
Calcite		_	-	_		Р	_	Tr		Р	P	Р	P	Р	Р	_		_			Р
Dolomite		_	_	_	_	_	_	/_				_	_	_	_	_		_	Р	_	_
Quartz	5.5	_	1.6	-		1.9	_	35.1				4.0	_	3.0	_	2.0		1.6	2.0	-	
Kaolin	-		·	_		_	Tr	Р				_	_	_	_	_			_	_	_
Tremolite	2.7	_		_	-	0.5	0.4	7.4	_		10.3	_	_	. —	0.1	3.0	0.1	_		_	2.4
Anthophyllite	11.4		_			_		4.9	_	_	_	4.6	_		2.4	5.2	2.1				6.5
Chrysotile	_	_	-	_		_			_			< 0.50	_		< 0.50		_	_	_		_
Pyrophyllite	_	_	_	_		_		. Р	_			Р	_	_	_	_	_	_	_	_	_
Rutile		_	_	_	-	_	Tr	-	-	-	_		_	_	_	_	_	_	_		_

 $^{{}^{}d}M = major; P = present; Tr = trace.$ ${}^{b}High K_{2}O \text{ and } Na_{2}O \text{ suggests that this phase is a mica (muscovite/biotite).}$

minerals, ranging in amounts from a few tenths of a percent to over 14%. Tremolite was the most commonly found (9 of the 21), and anthophyllite occurred with tremolite in 6 of the 21. A serpentine mineral phase was indicated in two samples, in amounts at or near the lower limits of detection. Verification of the serpentine phase as chrysotile in the two samples in amounts corresponding to the observed concentrations was made by electron microscopy.

Continuous scanning. In order to study the presence of all mineralogical (and possibly other crystalline) components the samples were scanned from 5° to 70° 2 theta at a scanning rate of 1° 2 theta per minute. This technique, as expected, proved satisfactory for the identification of major components, but it was generally found to be incapable of detecting tremolite, anthophyllite, or serpentine minerals except in cases of gross contamination. The high noise level (low peak-to-background ratio) often prevents the detection of quantities on the order of 4-6% or less and also excludes this technique for quantitative analysis. As a result of high noise level three false positives, as indicated by continuous scanning, were subsequently shown to be negative for amphibole by step scanning and electron microscopy. In addition, continuous scanning may not generally detect serpentine minerals in the presence of chlorite or kaolinite.

Electron Microscopy and Electron Diffraction

The transmission electron microscope has been shown to possess the sensitivity required for fiber identification and for determination of particle size distribution of submicroscopic particles (Langer and Pooley, 1973; Langer et al., 1973).

Accordingly, aliquots of talcum samples were prepared for electron microscopic analysis by a technique that disperses particles in a drop of nitrocellulose solution on a glass slide. A second glass slide is placed on the first and the two are drawn lightly apart, leaving a film. This technique is intended to minimize the alteration of particle size distribution. The film is mounted on electron microscope grids and scanned at magnifications of X20,000.

Morphologically, amphibole minerals are generally quite dissimilar from other silicate minerals. Both anthophyllite and tremolite are rectilinear, often with amphibole-type step cleavage or, infrequently, with prismatic terminations. Tremolite fibers tend to be electron dense and shorter than anthophyllite (Fig. 3), while the latter has a tendency to be electron translucent and to show diffraction contrast figures (Langer and Pooley, 1973). Sheet silicate minerals (talc, chlorite, micas) tend to be equidimensional in shape, often with pseudohexagonal outlines (Fig. 4). Curled talc plates or talc fibers on edge may superficially resemble asbestiform minerals, but selected area electron diffraction patterns easily distinguish between the two (compare Fig. 5A, C, and D).

Electron microscopy, in combination with selected area diffraction,

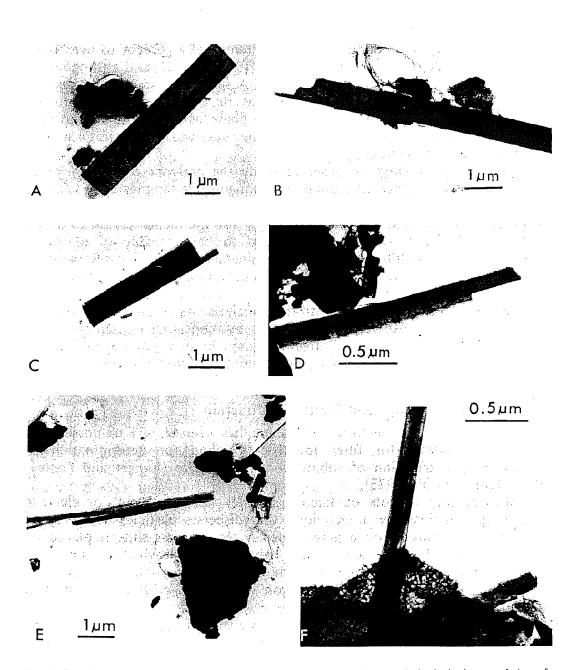


FIGURE 3. Transmission electron micrographs showing range in morphological characteristics of asbestiform tremolite and anthophyllite in talc. The entire range of morphological variations observed for these minerals is observed in the asbestos standards: rectilinear fibers with parallel ends and edges (A); step-cleavage ends (B); unit fibrils protruding from fiber body, (C); curvilinear fiber with amphibole cleavage end (D); high length-to-width ratio fibers (E); fibers protruding from interiors of talc plates (F). All of these morphological variations and forms (A-E) have been described in anthophyllite and tremolite asebestos samples. The amphibole structure was confirmed in all cases by selected area electron diffraction characterization. Scale as marked. Micrographs obtained on a JEOL JEM 120 U with an accelerating voltage at 120 kV.

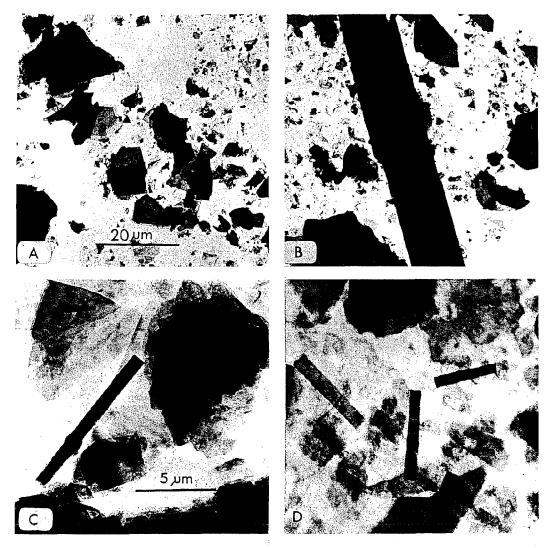


FIGURE 4. Transmission electron micrographs of cosmetic talc samples composed primarily of plates with an occasional large talc fiber (B, C); talc with many talc fibers (D); Scale is the same in (A) and (B) and in (C) and (D). All selected area electron diffraction patterns obtained on fibers yielded those consistent for talc plates (see Fig. 5, A and B). In all talc-containing samples examined by electron microscopy talc grains tended to range from 25 to 0.2 μ m in greatest dimension. Micrograph obtained on a JEOL JEM 120 U with an acceleration voltage at 120 kV.

was used to verify the presence of amphibole in the 10 samples shown to be positive by X-ray diffraction. Electron microscopy, while not quantitative, also showed that amphibole fibers were present in relative amounts that corresponded to their percentages as shown by X-ray diffraction.

The presence of traces of chrysotile, rather than platy serpentine, in samples 12 and 15 was verified by electron microscopy (Fig. 6). By

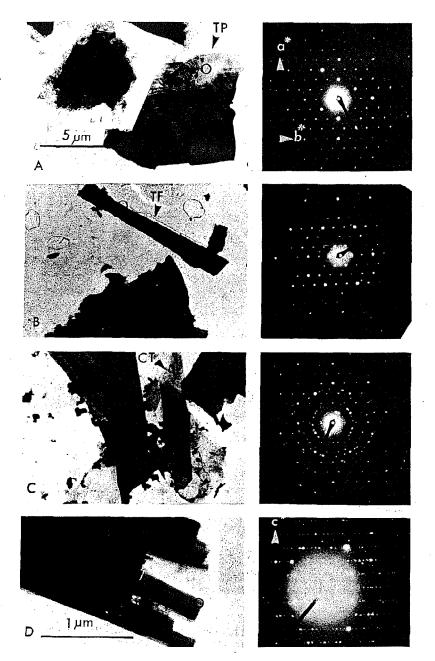


FIGURE 5. Transmission electron micrographs and accompanying selected area electron diffraction (SAED) patterns for cosmetic talc samples. The talc plate (TP) in (A) shows typical polygonal cleavage and diffraction contrast contours for the mineral species. The accompanying SAED pattern displays the characteristic reciprocal ab* plane pseudohexagonal symmetry for talc. Talc a* and b* directions indicated on (A). Measurement of pattern indicates a 5.3 A repeat along a* and a 9.1 A repeat for b* (measured at [110]). Talc fiber (TF) in (B) displays irregular ends and nonrectilinear edges. The SAED pattern is also pseudohexagonal, but some reflection intensities [e.g., the (060), (0.12.0)] are more pronounced. This may be due to both orientation and structural effects. The curled talc plate (CT) in (C) displays an incipient Debye-Scherrer ring pattern (the effects of both folding over of talc and small associated grains). The amphibole fiber (D) was diffracted only on one of the protruding unit fibrils. The c* axis is shown, with repeat measured at 5.3 A. Areas where diffraction patterns were obtained are indicated by location circles; particles were photographed at the SAED magnification X26,500. Scale is the same in A-C; scale in D as marked. Micrographs obtained on a JEOL JEM 120U with an accelerating voltage at 120 kV.

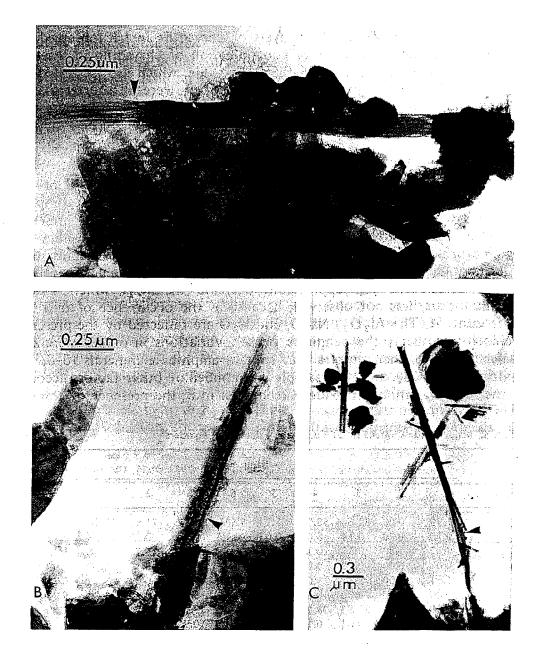


FIGURE 6. Transmission electron micrographs of asbestiform minerals in cosmetic talc, other than amphibole. (A and B) Two chrysotile fibers with morphological characteristics induced by electron beam damage. No diffraction pattern was obtained on either fiber. Arrow markers (A and B) indicate areas where these beam-damaged features are most prominent. Both fiber bundles appear to rest on talc plate substrates. Free chrysotile fibers and fibrils (C) were found in a sample found negative for asbestos by all other techniques. Scale as marked. Micrographs obtained on a JEOL JEM 120 U with an accelerating voltage at 120 kV.

comparison with known dilution levels of chrysotile in talc observed by electron microscopy, the levels of contamination of chrysotile in the two samples correspond to about 0.25–0.5% chrysotile, which was suggested by the X-ray diffraction results. The chrysotile fibers were all shorter than 2 μm and the diameters less than 0.2 μm , explaining why they were not visible by optical microscopy.

Chemistry of Consumer Talcums and Powders

The bulk chemistry (Table 5) and mineral contents (Table 4) of the talcums and powders complement each other in that one data set implies limits for the other. For example, analysis of sample 1 shows the presence of FeO and CaO (Table 5). Recalculation of these oxides into values for the empirical formulas for tremolite and anthophyllite indicates that sufficient quantities are present to account for the presence of these minerals (Table 4). An appreciable decrease in SiO₂, which should normally occur, was not observed, because of the occurrence of over 5% quartz content. The Al₂O₃, Na₂O, and K₂O are reflected by the presence of chlorite (probably the penninite phase). Variations in oxides were also observed in the other samples that contain amphibole minerals (6-8, 11, 12, 15-17, and 21). In these samples, a number of other factors account for the wide variations in oxide percentages: in 6, the presence of chlorite

TABLE 5. Major Oxide Content of 21 Consumer Talcum and Powders^d

	Sample no.														
Major oxide	1	2 ^b	3 ^c	4	5	6	7	. 8	9	10	11				
SiO ₂	61.99	0.00	62.68	58.72	61.94	52.95	59.67	71.93	58.68	51.65	49.48				
TiO ₂	0.10	0.00	0.14	0.04	0.03	0.17	1.40	0.19	0.08	0.71	0.22				
Al ₂ O ₃	0.82	1.30	0.37	0.24	0.45	1.16	0.87	15.73	0.58	1.45	2.32				
Fe ₂ O ₃	0.00	0.00	0.08	0.04	0.03	0.02	0.18	0.10	0.12	0.09	1.23				
FeO	1.51	0.00	0.32	3.03	0.51	0.86	0.84	0.34	3.12	0.34	0.07				
MnO	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00				
MgO	29.60	0.00	29.83	28.25	30.19	29.02	29.23	2.95	29.23	27.90	25.67				
CaO	0.40	0.00	0.04	0.10	0.04	3.46	0.90	2.37	0.17	4.75	1.61				
Na_2O	0.07	0.00	0.03	0.03	0.05	0.00	0.05	0.48	0.00	0.03	0.42				
K₂O	0.02	0.00	0.02	0.02	0.02	0.05	0.05	1.37	0.00	0.00	0.19				
P_2O_5	0.01	0.00	0.03	0.03	0.01	0.13	0.14	0.05	0.00	0.05	0.01				
Volatiles ^f	5.36	98.70	4.66	5.38	5.51	10.32	5.64	5.25	5.34	9.72	10.41				
Total	99.88	100.00	98.20	95.88	98.79	98.14	98.97	100.76	97.32	96.69	91.63				

^aWeight percent, recalculated as oxides, following standard petrochemical procedures. The bulk analysis of the powders reflects the combined mineral content after additives were extracted using water, dilute HCl, acetone, benzene, and ether.

^bAnalysis of 2: 98.7% = starch + organics and volatiles; 1.3% = Al, O, (aluminum chlorhydrate?).

^cStandard talc used as matrix for fiber standard dilutions.

sharply reduces the SiO_2 content and elevates the Al_2O_3 content. The presence of the carbonate mineral calcite increases the expected CaO and volatile contents (the latter includes CO_2); in 7, the high TiO_2 is reflected by the presence of the mineral rutile (TiO_2); in 11, the high CaO, moderately high Al_2O_3 , and low SiO_2 contents reflect the presence of calcite, chlorite, and tremolite.

Several of the above samples (numbers 8, 12, and 15) require special evaluation. Sample 8 is extremely high in SiO_2 , Al_2O_3 , Na_2O , and K_2O and extremely low in MgO content. The chemistry indicates that this material was not derived from a talc rock, but rather from one rich in alumina and silica. The mineralogy reflects this, as do the trace metals (see trace metal section). The amphibole minerals in sample 8 are associated with both pyrophyllite $[Al_4Si_8O_{22}(OH)_4]$ and quartz, both present in substantial quantities. The mica phase is not phlogopite, but muscovite, accounting for the presence of substantial quantities of K_2O and Na_2O . A plagioclase feldspar was also detected in the mineral phase. Sample 12 is very high in Al_2O_3 but extremely low in SiO_2 , apparently the result of high chlorite content as well as substantial amounts of pyrophyllite. Sample 15 is low in SiO_2 and extremely high in volatile content, reflecting the presence of both carbonate phases and organic additives.

The trace element analyses (Table 6) show distributions that are in accordance with the known behavior of trace elements in minerals. With

TABLE 5 (continued) Major Oxide Content of 21 Consumer Talcum and Powders^a

,											
				S	ample n	0.					÷
12	13	14	15	16	17	18	19	20	21	A^d	B^e
47.32	53.83	57.47	44.83	62.26	54.45	59.93	58.54	62.19	56.34	57.34	61.49
0.18	0.11	0.11	0.07	0.06	0.10	0.10	0.18	0.08	0.12	0.21	0.01
9.34	1.74	1.65	0.69	0.45	4.26	0.79	1.11	0.69	1.35	2.30	1.20
0.05	0.03	0.02	0.00	0.18	0.04	0.00	0.00	0.00	0.02	0.11	0.38
1.22	0.70	0.65	0.62	1.04	1.41	0.84	1.38	0.81	1.39	1.05	1.07
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
29.83	27.14	26.98	23.88	30.00	30.79	30.40	29.83	30.19	27.90	27.44	30.54
0.69	5.49	5.52	3.67	0.13	1.13	0.50	1.13	0.43	1.53	1.69	0.46
0.03	0.07	0.05	0.35	0.09	0.09	0.09	0.00	0.07	0.07	0.10	
0.05	0.00	0.02	0.07	0.05	0.02	0.02	0.00	0.00	0.00	0.10	_
0.21	0.14	0.13	0.10	0.01	0.04	0.13	0.00	0.13	0.02	0.70	_
10.26	10.81	10.41	21.34	5.92	7.54	5.65	5.94	5.14	9.99	8.03	5.00
99.18	100.06	98.01	95.62	100.19	99.87	98.45	98.21	99.73	98.73	98.20	100.11

d Average of 20 talc samples.

^e Average of 8 talc analyses in Deer et al. (1962).

^fVolatiles are lost on ignition (total H₂O, CO₂, organics, and other volatiles).

TABLE 6. Trace Element Content of 21 Consumer Talcum and Powders^a

T										Sam	ple no.										
Trace metals	1	2	3	4	. 5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Ba	<10	_	<10	<10	<10	<10	<10	50	<10	990	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ce	<10	_	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cl	210	_	130	135	185	200	140	130	115	125	115	120	430	435	410	165	140	130	110	1 20	130
Co	35	_	<3	85	<3	<3	<3	<3	88	<3	<3	<3	<3	<3	<3	21	<3	4	<3	<3	<3
Cr	310	_	28	600	16	23	24	<15	820	25	18	24	38	49	41	340	32	30	28	25	42
Cu	<5	_	<5	<5	8	<5	< 5 ·	. 9	<5	<5	< 5 .	<5	5	8	10	13	6	7	6	6	13
Ga	<1		4 -	<1	<1	1	<1	20	<1	1	3	13	2	1	2	2	7	3	2	3	<1
La	<10.	_	<10	<10	<10	<10	<10	40	<10	<10	<10	<10	<10	<10	30	<10	<10	10	<10	<10	<10
Nb	7	_	8	8	11	7	9	14	: 5	7	. 6	18	7	7	5	5	. 9	8	9	9	7
Ni	710	_	17	172	27	13	10	<4	2210	34	4	11	10	17	10	460	14	20	28	19	42
Pb	8	_	8	<5	< 5	<5	<.5	49	7	<5	17.	5	7	12	8	. 6	9	7	. 8	5	16
Rb	5	_	5	<5	<5	<5	5	45	<5	<∙5	<5	<5	<5	5 .	5	. 5	<5	5	5	5	<5
S	235	_	130	120	2230	440	150	305	155	425	110	280	485	595	.535	320	140	160	105	155	1070
Sr	10		10	10	10	20	30	160	<10	25	100	<10	15	20	20 .	<10	15	10	10	10	15
Th	<5	_	<5	<5	<5	<5	<5	. 6	<5	<5	<5	· <5	<5	<5	<5	< 5	<5	<5	<5	<5	<5
Zn	≫	-	85	37	18	12	15	20	37	≫	≫	≫	35	11	20	73	27	8	11	3	>
Tr	<10		<10	<10	<10	.90	10	190	<10	10	10	30	<10	<10	<10	<10	50	<10	<10	<10	<10

^aValues in parts per million. The symbol < indicates the limit of detection of the analytical method. The symbol ≥ indicates concentrations of Zn are greater than 1,000 ppm.

the crystal lattice of a mineral acting as a sorting mechanism for cations, the cations can enter a crystal structure providing they have appropriate size and charge. These phenomena apply to major as well as minor elements. Thus, barium is present in large amounts in sample 8, which has a high K_2O content (1.37%). Since barium and potassium have similar ionic radii, barium is easily admitted into potassium minerals, such as micas and feldspars (both found in 8). Rubidium and strontium are also enriched in sample 8, since these metals also easily substitute for potassium. Gallium is found in large amounts in samples 8, 12, and 17. These samples are also very high in Al_2O_3 . Gallium has the same ionic charge and radius as aluminum and, in fact, is found only in aluminum-bearing minerals.

In four samples (1, 4, 9, and 16) there are significantly higher concentrations of cobalt, chromium, and nickel than found in the other samples. These four samples also have high contents of FeO (Table 5). The association of these four transition metals has been observed before in certain geochemical environments, particularly in ultramafic rocks. Since talcs derived from the metamorphism of serpentines and peridotites (ultramafic rocks) are considerably enriched in FeO (Deer et al., 1962), it is likely that the divalent cations are substituting for iron in the brucite layer of the talc.

DISCUSSION AND CONCLUSIONS

Talc used in the United States represents a wide range of mineralogical substances. Industrial grade talcs are obtained from different rock types of highly variable mineral composition with the result that the mineral talc may actually be a minor constituent. However, it has been stated that consumer talcum products should contain at least 90% of the mineral of the same name and no asbestos fiber (Hildick-Smith, 1976). Review of the literature suggests that at least until 1968, materials that were marketed as cosmetic talcum products did not necessarily conform to these criteria.

Talc mineral may occur in a platy form or in a fibrous form. Talc fiber may occur as a small proportion of the mineral desposit or as a major constituent. Intergrowths of talc with other mineral phases are common. These phases may be simply macroscopic zones adjoining talc mineral or may occur as microscopic intergrowths within the talc. Of the many minerals that may coexist with talc, a number of asbestiform phases commonly occur: tremolite, anthophyllite, and chrysotile have been identified in these deposits. In addition, free silica (quartz) is a frequent constituent. The trace metal content may include elevated levels of nickel, chromium, and cobalt.

There is general agreement between the mineral composition and the major and trace element content of the consumer talcum products. On the

basis of mineral and chemical contents, the type of geological provenance may be ascertained.

Methodology has been developed for quantitative X-ray diffraction determination of anthophyllite, tremolite, serpentine, and quartz in consumer talcums and powders. Important factors in the calibration standard development include selection of talc and reference minerals and the selection of diagnostic X-ray reflections. The sample preparation technique is sensitive and reproducible. Dilution standards are step scanned over diagnostic reflection areas, peak areas are measured, and a set of standard calibration curves is developed by regression analysis. Samples of consumer talcums and powders are prepared and analyzed under identical conditions and compared with the calibration curves, permitting quantitative analysis of these minerals. X-ray diffraction alone cannot distinguish between asbestiform and fragmented forms of anthophyllite and tremolite nor between asbestiform and platy serpentine varieties. Electron microscopic analysis was used to distinguish between these forms.

Mineralogical characterization of 21 consumer talcums and powders showed that 10 contained measurable concentrations of asbestiform tremolite and anthophyllite, and some also contained fragmented forms of these minerals. Two samples contained trace quantities of chrysotile (0.25-0.5%). These observations were confirmed by transmission electron microscopy. The amphibole phases present in these talcum products ranged in amounts from several tenths of a percent to over 14% by weight. Quartz was present in eight consumer talcs in amounts ranging from 1.6 to 35.1% by weight.

Consumer talcum products are for the most part complex mineral assemblages, which confer X-ray sorbing and fluorescing effects that are not equivalent to, and are usually greater than, those of the binary systems used in preparing the dilution standards. In consumer talcum products minerals such as talc, micas, chlorite, calcite, dolomite, and others tend to diminish reflection intensities of asbestiform minerals by sorbing X-rays or by contributing to background noise. Also, repeat runs on some selected specimens have demonstrated greater peak areas due to slight modifications in instrumental settings (e.g., increase in receiving slit width). Therefore, the values for weight percent concentrations given in this report are conservative.

Examination of the same consumer talcum products by both optical and transmission electron microscopy indicates that not all of the materials fall within the definition of fiber or asbestiform. For example, one consumer talcum product that contained more than 7% tremolite was observed to contain both fragmented tremolite grains by optical microscopy and asbestiform fiber with 3:1 or greater length-to-width ratio by transmission electron microscopy. Optical microscopy may provide useful information. However, more complete characterization can be obtained by electron microscopy and selected area electron diffraction. Using electron

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microscopy, for example, several samples of consumer talcum products exhibited both free amphibole fiber, discrete from talc grains, and, in addition, numerous small amphibole fibers were visible, apparently interlayered between talc or chlorite plates (see Fig. 6A).

Preliminary examination of the asbestiform amphiboles by an electron microprobe technique has demonstrated that individual fiber chemistry is identical to those fibers encountered in the IARC Asbestos Standards (Timbrell and Rendall, 1971).

On the basis of the mineralogical and chemical characterization of these products, all formulated prior to June 1973, we conclude that cosmetic grade talc was not used exclusively. The presence in these products of asbestiform anthophyllite and tremolite, chrysotile, and quartz indicates the need for a regulatory standard for cosmetic talc. This standard should be cognizant of talc complexities, mineralogical and chemical in nature, and should provide for adequate analytical protocols to ensure monitoring. We also recommend that evaluation be made to determine possible health hazards associated with the use of these products.

APPENDIX A: DEFINITIONS OF TERMS USED IN TEXT

Asbestos "A name applied to a group of naturally fibrous minerals" (chrysotile, amosite, crocidolite, tremolite, anthophyllite cited by name) (Bureau of Mines, 1968). The term asbestos has also been applied to commercially exploited fibrous clays, including attapulgite and palygorskite (Whittaker, 1968).

Asbestos implies current or possible exploitation, based on the presence of special physical and chemical properties, determined on the bulk sample level. For example, high fiber tensile strength, flexibility, low heat conductivity, high electrical resistance, and chemical inertness are properties of asbestos. Noncommercial varieties of the same mineral may not possess the same qualities on the bulk level. For example, amosite has been considered to be the economically exploited variety of grunerite (Deer et al., 1962). If so, and even this is contested among mineralogists today, large macrocrystals are significantly different physically and structurally. Grunerite fiber is rigid, amosite fiber is flexible; grunerite yields well-defined single X-ray reflections with nonrotational film techniques, amosite yields multiple reflections as if rotated in the X-ray beam; grunerite appears to be a single crystal, amosite splays as if composed of strands. However, when both substances are pulverized, the resultant powder yields submicroscopic fibers, many of which are virtually indistinguishable on the basis of morphology, structure (determined by selected area electron diffraction), and chemistry (determined by an electron probe

technique). Amosite may be considered as an aggregate of unoriented, discrete, grunerite crystals with only the c axis in common alignment.

Comminution of such aggregates produces fibers with characteristics identical to those of single crystals of grunerite that have been similarly pulverized. Some workers have suggested that mechanical size reduction of amosite yields fibers with crystal growth surfaces rather than cleavage surfaces. Since amphibole cleavage tends to parallel prominent crystal face planes, such distinctions on the submicroscopic level may disappear. This appears to be the case for tremolite and anthophyllite as well. However, because no methods exist to distinguish between possible differences in fiber surface, we do not refer to anthophyllite and tremolite fibers in these talcums as asbestos. Instead they are referred to as asbestiform. It should be stressed, however, that evidence does not exist that would indicate that fibers with crystal growth surfaces or cleavage surfaces possess lesser or greater biological potential than fibers from commercial asbestos deposits.

Asbestiform "Formed like or resembling asbestos; fibrous; . . . (Bureau of Mines, 1968). The term is used herein for amphiboles (anthophyllite and tremolite) seen on both light and submicroscopic examination, which resemble comminuted asbestos varieties, on the basis of morphology. Essentially, when these fibers are derived from commercial deposits we term them "asbestos" and when analytically identical fibers are found as noncommercial intrusions with the mineral talc, we term them "asbestiform." The use of two terms does not imply differences that can be analytically determined.

Fiber "The smallest single strand of asbestos or other fibrous materials" (Bureau of Mines, 1968). We use this term in a broader sense. For example, chrysotile fibers are called fibrils, possessing unit diameters of about 200-400 Å. Coherent bundles of fibrils are also called fibers. Fiber in the present text is used to denote any elongated single mineral unit visible on the light or electron microscopic level. The Occupational Safety and Health Administration has applied a 3:1 length-to-width ratio to distinguish fiber from mineral fragment.

APPENDIX B: CRYSTAL CHEMISTRY, CRYSTAL STRUCTURE, AND GEOLOGICAL OCCURRENCE OF TALC

Chemistry of Talc

The empirical chemical formula of talc is $Mg_3Si_4O_{10}(OH)_2$, but ferrous and ferric oxides, alumina, titania, soda, lime, and oxides of manganese have been reported in quantities up to several percents by

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weight. Titanium and aluminum appear to substitute for silicon, whereas iron, nickel, and manganese substitute for magnesium. Alkali metals are not readily accommodated in the structure and evidently occur as interlayer ions or as components of mineral impurities. For example, excess calcium may reflect the presence of the interlayer mineral phase tremolite (Deer et al., 1962; Stemple and Brindley, 1960). One major talc deposit in the eastern United States contains substantial amounts of nickel, as much as 0.2%. Notwithstanding these minor components, talc is essentially (by weight) 32% MgO, 63% SiO₂, and 5% structurally bound water.

Talc Structure and Crystal Habit

The three-layered crystal structure comprises a sheet of octahedrally coordinated Mg(OH)₂ groups (the brucite layer) sandwiched between two planes of tetrahedrally linked SiO₄ groups (silica layers). Apical oxygens of the silica sheets are directed toward the brucite layer and in part replaced by hydroxyl groups, which form a portion of the inner structural unit. Valence balance is accomplished within the structure, so that there is a net zero charge on juxtaposed unit layers at the silica base interfaces.

The basic unit of the talc structure was determined over 40 yr ago (Gruner, 1934; Hendricks, 1938), yet the repeated cell geometry and space group were only recently resolved. X-ray single crystal patterns now indicate talc to be triclinic (Rayner and Brown, 1966; Ross et al., 1968).

In addition to chemical and structural complexities, talc occurs with both plate and fiber habits (Ford, 1957). The development of the fibrous cyrstal form, with an elongated crystallographic a-axis, may be a manifestation of ionic substitution since its refractive index is higher than platy talc (Fleischer and Osborn, 1957; Gruner, 1944). Talc that contains substantial amounts of these elongated forms is referred to in the mineralogical literature as fibrous talc. Similar observations with regard to the mineral brucite have been reported (Liebling and Langer, 1972) in which high iron content in the normally platy brucite is associated with the development of a fibrous habit. It is of interest to note that minnesotaite, considered by some to be an iron-rich form of talc, always occurs with a fibrous, or even a needle-like, habit (Gruner, 1944).

Formation of Talc in the Laboratory of Nature

In closely controlled experimental systems, talc has been synthesized (Bowen and Tuttle, 1949; Yoder, 1952). Bulk chemistry, water fugacity, temperature, and pressure parameters are defined within extremely restricted limits and ranges to produce relatively pure crystallization products. However, in laboratory synthesis, just as in nature, coexisting mineral phases are produced if slight variations in any of the parameters are introduced. These phases include anthophyllite, serpentine, and in some instances tremolite.

Nature of Talc Plates

Electron microscopic examination of talc minerals demonstrates that single talc grains consist of contiguous single crystals, mosaics of disoriented crystallites, and intergrowths with other mineral phases, particularly tremolite (Kleinfeld et al., 1973; Stemple and Brindley, 1960; Wright, 1960). Selected area electron diffraction patterns obtained on these objects display, in order, single crystal arrays, Debye-Scherrer rings, and superimposed complex patterns characteristic of intergrown single crystal phases.

Talc and Mineral Intergrowths

Tremolite is one common intergrowth in talc, and it requires relatively little energy thermodynamically to occur. Replacement of magnesium by calcium in the brucite layer may lead to structural as well as chemical modification (Bragg and Claringbull, 1965). Rotation of unit tetrahedra in talc forms double chains from sheets, readily accomplished by substitution of $Mg(OH)_2$ by $Ca(OH)_2$. The bulk chemistry is thereby changed from $Mg_6Si_8O_{20})(OH)_4$ to $Ca_2Mg_5Si_8O_{22}(OH)_2$. The final structural array is remarkably similar in both materials; the crystallographic a-axis of talc is approximately 5.26 Å, which corresponds with the c-crystallographic axis of tremolite (approximately 5.24 Å); the b-axis for talc is approximately 9.10 Å, which is equal to the b/2-axis of tremolite; the c-axis of talc, approximately 18.8 Å, is about equal to twice the a-dimension of tremolite (approximately 18.2 Å). The monoclinic stacking angles, the beta-angle, are within a few degrees of each other.

Intergrowths may form in which amphibole formation is not complete so that a mixed phase exists, referred to mineralogically as "talcboles." These are not as rare as once believed and may even be common in the more complex talc deposits.

APPENDIX C: INDUSTRIAL AND COSMETIC GRADE TALCS

Studies have demonstrated that industrial talc often consists of a variety of minerals, the utilization of which is based on physical properties rather than mineral composition (Hogue and Mallette, 1949; Schulz and Williams, 1942; Thompson, 1974; Wells, 1965).

Early analyses of cosmetic talc also showed a wide range in mineral composition. Of six such products examined in one study, only 6-47% by weight of the inorganic material that constituted the product was the mineral talc; 14-51%, serpentine minerals; 5-77% carbonate minerals; 0-trace, quartz; 0-trace, tremolite; 3-12%, other minerals (Schulz and Williams, 1942).

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APPENDIX D: BIOLOGICAL HAZARDS ASSOCIATED WITH TALC EXPOSURE

A fine, diffuse, bilateral, progressive fibrosis was observed among miners and millers of tremolite talc in Georgia (Dreessen, 1933; Dreessen and Dalla Valle, 1935). Siegal et al. (1943) studied a population of workers mining and milling tremolite and anthophyllite-bearing talc deposits in New York state. In addition to the bilateral fibrosis, pleural plaques, similar to those encountered in asbestos workers, were observed. Review of postmortem material in this study indicated that asbestos bodies were present in lung tissue. These findings were also reported in cases of severe pneumoconiosis in tremolite millers by Daymon (1946), and by Porro and Levine (1946).

Millman (1947) reported that exposure to cosmetic-grade talc produced nodular fibrosis in workers. No quartz was detected in the dust. The author concluded that talc itself was capable of producing scarring. The observation was supported in studies by Reichman (1944) and by Wyers (1949) and in a study of talc miners and millers in Italy where exposure to pure talc produced a 10% incidence of pneumoconiosis in workers (Parmeggiani, 1948). Excess deaths attributed to pneumoconiosis have been reported among workers in northern Italy mining talc considered to be free of asbestiform fibers (Rubino et al., 1976).

Some investigators have held that fibrous talcs (not differentiated as talc or asbestos fiber) are biologically more hazardous than platy talcs. For example, in a review of the literature by Porro et al. (1942), Gloyne and Gardner are referred to as considering that the clinical, radiological, and pathological disease states of asbestosis and talcosis are very similar. There are several reports of the occurrence of asbestos bodies in the lung tissue of workers exposed to talc (Daymon, 1946; Hobbs, 1950; Kleinfeld et al., 1973; McLaughlin et al., 1949; Porro et al., 1942).

Several studies suggest that fibrous talcs are more dangerous as a result of the included asbestos fiber. For example, McLaughlin et al. (1949) compared fibers in talc with the proportion of fibers recovered from the lung tissue of an exposed worker. A larger concentration of fibers was found in the tissues as compared with the raw talc. Talc pneumoconiosis was reaffirmed by Kleinfeld and Messite (1960) in their study of the New York state talc workers.

In a study by Kleinfeld et al. (1967) it was demonstrated that talc pneumoconiosis accounted for almost 30% of excess deaths among the talc miners and millers. Most of these were due to the complication of pneumoconiosis, cor pulmonale. However, 21% of the 91 deaths recorded were due to malignant tumors: lung carcinoma, pleural fibrosarcoma, and stomach, colon, rectum, and pancreatic cancers. A peritoncal mesothelioma was reported as well. In addition to these tumors, retroperitoneal sarcoma, hepatoma, and leukemia were also found. Statistical evaluation of

these data indicated that a 3- to 4-fold excess of cancers existed in this group, as compared to a matched control population.

The biological activity of both tremolite and anthophyllite fibers has been known for some time, and both have been cited as asbestos minerals by Merewether (1930) and Noro (1946). Asbestos disease among workers (and others exposed to anthophyllite and tremolite) has been reported (Burilkov and Badajov, 1970; Kiviluoto, 1960; Meurman, 1968; Meurman et al., 1974; Schepers, 1965; Wegelius, 1947; Weiss and Boettner, 1967).

Recent experimental data also indicate that tremolite fibers are biologically active (Graham and Graham, 1967). Some investigators have suggested that inorganic fiber fibrogenicity and carcinogenicity is limited only by its ability to reach the alveolar space (Holt et al., 1965; Pott and Friedrichs, 1972; Pott et al., 1974; Robock and Klosterkötter, 1976; Stanton and Wrench, 1972).

Wagner et al. (1975) reported lung scarring in Wistar rats with pure talc, exposed by inhalation. The severity and extent of the lung scarring was comparable to that produced by chrysotile asbestos under identical experimental conditions. In addition to lung scarring, ingestion of talc was reported to be associated with leiomyosarcoma of the stomach as well as one adenoma and several sarcomas of the uterus. However, the exposure levels were high and the numbers of observed tumors small, so that statistical validation of the carcinogenic potential of pure talc and its relevance to human exposures were not achieved.

There are also extensive data concerning hazards associated with exposure to silica or trace metals, particularly nickel and chromium (National Research Council, 1975). Analytical data are presented here that suggest possible disease potential and the need for investigation in these areas.

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